Fordham
1986

BBC FOLDING
DIGITAL SCOPE MULTIMETER
MODEL M-2050-01
See page 41 for details
OUR PRICE **$1249.95**

HITACHI MINI-PORTABLE
DUAL-TRACE OSCILLOSCOPE
MODEL V-509 See page 11 for details
OUR PRICE
$995.00

SCOPE
HAND-HELD
DIGITAL
MULTIMETER
MODEL DVM-638
See page 9B for details
OUR PRICE
$79.95

BEL MICRO EYE DASH/VISOR
RADAR DETECTOR
MODEL 834-S See page 3B for details
OUR PRICE
$199.95

Out of State Toll Free
800-645-9518
NYS Toll Free
800-832-1446

VIDEO EQUIPMENT & ACCESSORIES

BP VIDEO-CINE CONVERTER

MODEL **V-1701**

OUR PRICE **$34.95**

Description

The BP Video-Cine Converter is an optical device that allows the easy transfer of slides, 8mm or 16mm movie film to VCR tape. The Video-Cine Converter's precision optics put the image from your movie or slide projector on a high-contrast, rear projection screen. Your video camera shoots that image, can color-correct faded pictures, add narration or other sound. Can be used with any video camera or slide projector. If your video camera lacks close-up capability, you will need a macro lens attachment.

Patent Pending

LENS ATTACHMENTS

Model	Description	Our Price
V-10	Fisheye	$ 49.95
V-11	Close-up/Wide-View	49.95
V-12	Telephoto	105.00
V-14	Macro Lens	12.95

HAWKEYE CORDLESS VIDEO/AUDIO TRANSMITTER

MAKE YOUR VCR CAMERA CORDLESS

Watch Your VCR On A UHF Channel Without Running Cables (Wireless!)

MODEL **VTR-80**

OUR PRICE **$299.95**

NEW!

FEATURES

- Transmits live video/audio from video camera to any TV set.
- Transmits recorded video/audio from VCR to any TV set.
- Range approx. 200 ft.
- Sharp, clear picture.
- No cable - Portable
- Operates on 12 volts DC.
- Color or B&W • Light weight - Miniature size.
- Applications: home entertainment, crime watch, baby minder, education, home security and much more.

DESCRIPTION

The Video/Audio Transmitter, Hawkeye model VTR-80 is a portable, real time, fast scan, high resolution, cordless Video/Audio transmission device.

To transmit live video pictures, you simply plug in any standard video camera to the video/audio input connections on the VTR-80 Video Transmitter. Alternatively, you can transmit recorded video tapes, directly from you VCR, by connecting the video/audio output connections on you VCR to the video/audio input connection on the VTR-80.

With the Hawkeye Video Transmitter, your pictures, live or recorded, can be viewed on any standard TV, just turn the dial to UHF Channel 14. Other channels available.

Video Camera Hook-Up Cables

VHS model HE-10 ..... **$29.95** **BETA model HE-14** **$29.95**

BP DUBBING CABLES with GOLD CONNECTORS

MODEL **V-3622**

OUR PRICE **$12.95**

2 FOR **$20.00**

- Deluxe 10 Ft. Dubbing Cable for Video & Audio
- Two Gold Plated RCA Plugs on Both Ends

BP VIDEO CASSETTE CABINET

MODEL **V-6636**

SPECIAL!

OUR PRICE

$29.95

FEATURES

- Stores 35 VHS or BETA cassettes.
- Each drawer holds 12 video cassettes.
- Keeps video cassettes clean and safe.
- Unlimited mounting.
- Center drawer lock comes with lock key.
- Dimensions: 26"W x 16-1/2"D x 6"H.

REMOTE MAGIC

Home Video Control Products

VIDEO LINK REMOTE XTRA-LINK

MODEL **170** OUR PRICE **$49.95**

DESCRIPTION

It's like having an extra VCR or cable box—XTRA-LINK ends the endless walk between rooms.

No other video accessory available today offers as much added control and convenience. It's common to feed video signals through coaxial cables from one room to another. But as everyone knows, the control tape, disc or channel selection is still located with the video components in the main viewing room.

XTRA-LINK provides full function remote control for any kind of remote controlled video component regardless of location. Once XTRA-LINK is installed on a TV—for example, in a bedroom—total control of VCR, Video Disc or Cable Selector is possible by simply using the hand-held wireless remote controller. No matter how far away the components are located in the house, you can stop, start, fast forward, or perform any function available on the controller.

VIDEO LINK WIRELESS REMOTE SWITCHER

MODEL **XL-400**

REG. **$199.95**

NEW!

OUR PRICE **$149.95**

FEATURES

- Multi-purpose 4-input electronic switcher.
- Stand-alone 4-in, 3-output switcher switches TV-1, TV-2 and VCR to four selectable inputs (cable, antenna, VCR, video disc for example).
- Hand-held remote allows TV-1 source to be remotely switched.
- When used with Model 170 XTRA-LINK allows TV-2 source to be remotely switched with its own hand-held remote control.
- Pushbutton included for remote switching of VCR/TV-3 source.
- Three panel buttons sequentially select inputs.
- Active input for each output is announced on 12 LED matrix "scoreboard."
- Trouble-free, all electronic switching provides millions of operations.
- 75 dB of isolation for undisturbed TV pictures and VCR recording.
- Extremely low (7.5 dB) insertion loss. • XTRA-LINK ready.

BP VHS & BETA VINYL LIBRARY CASES

MODEL **V-6650** VHS

OUR PRICE **$1.50** each

10 FOR **$12.50**

50 FOR **$50.00**

MODEL **V-6660** BETA

OUR PRICE **$1.50** each

10 FOR **$12.50** 50 FOR **$50.00**

FEATURES

- Single cavity VHS or BETA cassette album.
- Excellent for attractive home cassette storage or movie rental.

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Certain products in this catalog are covered by pending U.S. patent applications.

BP STABILIZER/IMAGE ENHANCER/RF CONVERTER/VIDEO FADER/2-WAY DISTRIBUTION AMPLIFIER

All In One Video Processor

MODEL V-1880

OUR PRICE $79.95

Dimensions: 13-1/4"W x 6-3/4"D x 2-3/4"H

SPECIAL!

FOR VCR TAPES

CABLE KIT (Hook-up Cables) $11.75
Contains 1-F3F $1.25each
6-V3606 . . . . . $1.75each

The model V-1880 is one of the most versatile video processors on the market today. It contains five units in one. The V-1880 Video Processor can be used as a stabilizer (video guard remover), image enhancer, video to RF converter, video fader for professional fade in and fade out scenes and a dual output distribution amplifier.

VIDEO PROCESSOR FUNCTIONS

Stabilizer

Place stabilizer switch in 'ON' position. The lock control will correct the entire range of copy guard distortion such as jitter, vertical roll or a black bar travelling through picture. With the lock control fully counterclockwise, slowly turn it clockwise until the picture locks vertically or the black bar disappears.

If the picture occasionally drifts vertically or a stationary black bar appears, turn control further clockwise. If the picture occasionally jitters vertically, slightly adjust the tracking control on your VCR. If that does not help, then try turning the lock control slightly counterclockwise.

A stable picture will be obtained on about 1/4 of the controls range, but it is best to keep it near the counterclockwise end of this range.

Once set for a given type of tape, further adjustment should not be required.

Enhancer

The enhancer function is controlled by the Detail control. Minimum enhencement is in the full counterclockwise position. The Detail control will let you attain best picture for your own preference. Rotate clockwise until visible grain develops in the TV picture coming from the recording unit. Reduce gain control until picture is sharp and clear. Image Enhancer effectiveness will vary depending on the source material. The better the source material the greater the possible improvement. On the other hand, enhancement of very poor quality material will produce minimal results. You cannot expect a great deal of improvement from a low quality source as a third generation six hour tape.

RF Converter

The RF Converter allows your TV set to receive video and audio signals from your image enhancer, guard stabilizer, video camera, computer, VCR, etc. The outputs of meny video components cannot be directly hooked up to the VHF antenna terminals on your TV set. This problem is solved by utilizing this feature.

The direct video signal from any video component is can be fed into the V-1880 and converted to a usable RF signal that can go to your TV antenna terminals.

Video Fader

This function can be used to produce professional fade ins and fade outs. Use it to make gradual transitions from full video to black and back to full video.

To fade out, simply place feder control in the 'OUT' position and the V-1880 will automatically perform a fade out function.

To fade in, simply place fader control in the 'IN' position end the V-1880 will automatically perform e fade in function.

BP VIDEO GUARD STABILIZER

MODEL V-1875

OUR PRICE $39.95

Dimensions: 11-1/2"W x 7-1/4"D x 3-3/8"H

FOR VCR TAPES

CABLE KIT (Hook-up Cables) $10.50
Contains 6V-3606 . . . . . $1.75each

The Model V-1875 is a Video Guard Stabilizer that also has a self contained A&B switch and a bypass switch. Many movies, concerts and special programs availeble for sale or rental are copy guarded to prevent you from making copies. The V-1875 Video Guerd Stabilizer removes the copy guard and allows you to make copies. Many TV sets will not play prerecorded tapes because the copy guard causes the picture to roll and jitter, turn to snow or disappear altogether. The Model V-1875 Video Guard Stabilizer stops this at the source by completely removing the copy guard from the signal.

The A/B switch enables quick selection of one or two VCR's without disconnecting cables. The bypass switch enables quick comparison of VCR output with or without a stabilizer.

BP VIDEO SWITCH

MODEL V-4804

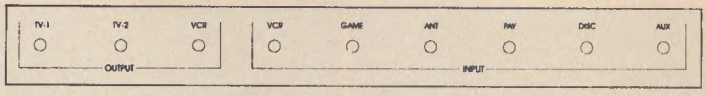
OUR PRICE $39.95 SPECIAL!

Dimensions: 14-3/4"W x 7-1/8"D x 2-1/4"H

RECORD A PAY CHANNEL WHILE VIEWING A STANDARD CHANNEL

DESCRIPTION

The BP V-4804 is a switcher that can accept six inputs and direct them to three outputs. By utilizing a switch similer to the one used on home VCR's we evoid signal loss incurred by using splitters.
The V-4804 eliminates the backbreaking chore of connecting end disconnecting cables in the back of your TV. You can record a premium channel while viewing e reguler chennel. Push button control of your Video Entertainment System gives you selection et the touch of a button. This system has the input for two TV sets simultaneously for a veriety of video sources. You can connect an Antenne/Cable, VCR, Video Disc Player, Home Computer or Video Game.



BP VHS & BETA TAPE REWINDERS

MODEL V-7777 VHS **OUR PRICE $39.95**

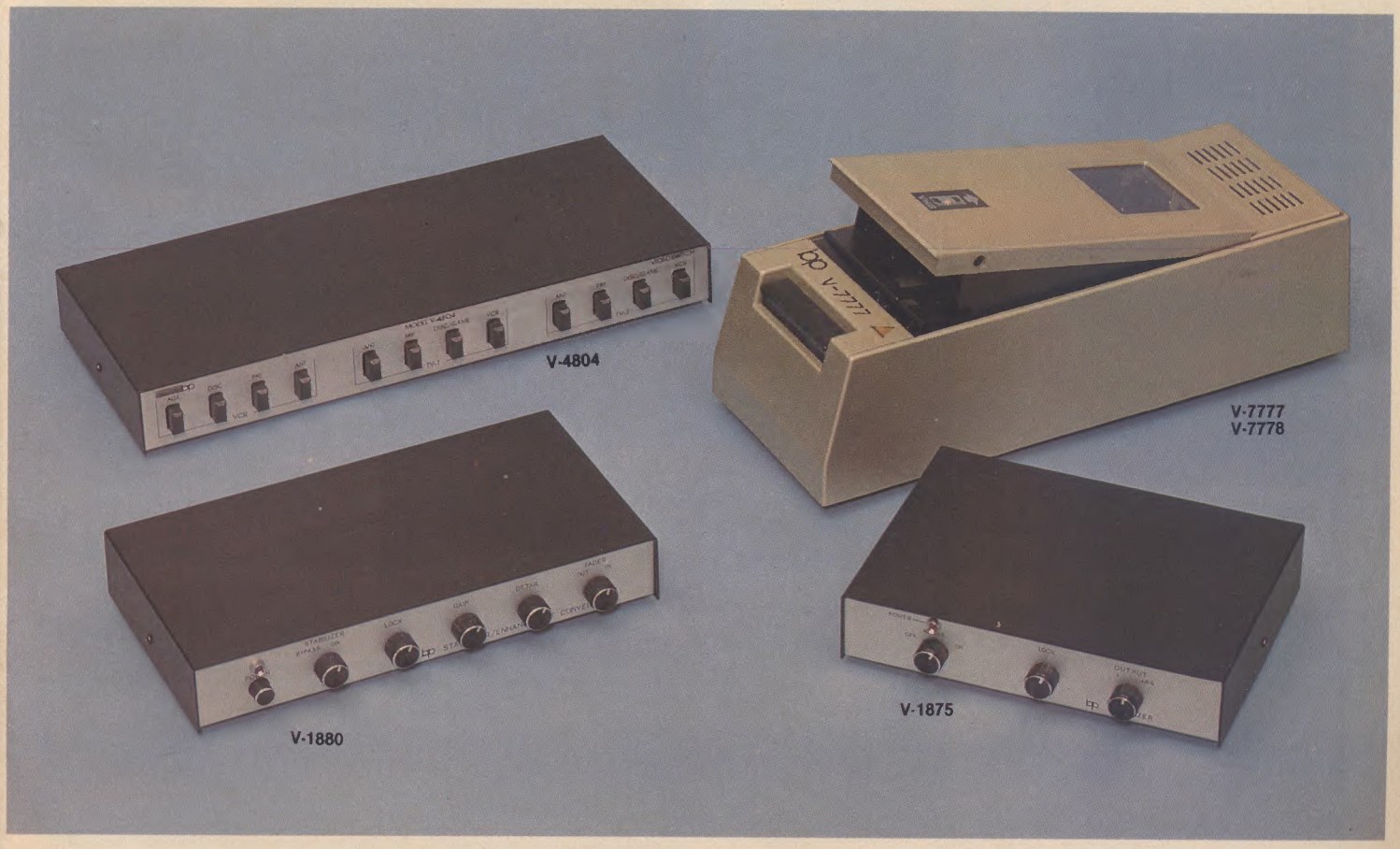
MODEL V-7778 BETA **OUR PRICE $39.95**

DESCRIPTION

Protect your veluable VCR heeds with these AC opereted, circuit protected tepe rewinders. A key product for use by retell rentel store locetions.

FEATURES

• Led "power on" indicator. • Dimensions: 8-1/4W x 13-1/4D x 5-3/4H".



CORDLESS TELEPHONES

COBRA ALL NEW CORDLESS TELEPHONES

46/49 MHz Make and Receive Calls. . .Inside or Outside Up to 1,000 ft. From the Base Unit.

COBRA FULL-SIZE CORDLESS PHONE

MODEL CP-440S

OUR PRICE $69.95 SPECIAL!

DESCRIPTION
Full-size Cordless Phone, with 32 digital codes, one-way paging, call-waiting compatibility, SECUR-LOC, last-number redial and auto-standby.

MODEL CP-445S

OUR PRICE $99.95

DESCRIPTION
Same as above, plus switchable tone/pulse dialing for use with MCI, Sprint, etc.

MODEL CP-447 OUR PRICE $110.00 NEW!

DESCRIPTION
Full-size Cordless Phone, with 32 digital security codes, switchable tone/pulse dialing for use with MCI, Sprint, etc; hands-free speakerphone, one-way paging, call waiting capability, last number redial; SECUR-LOC and auto-standby.

COBRA FULL-SIZE CORDLESS PHONE

MODEL CP-450

OUR PRICE $129.95

DESCRIPTION
Full-size Cordless Phone with 512 digital codes, selectable channels, switchable tone/pulse dialing, 9-number memory plus last-number redial, two-way paging and intercom, call waiting compatibility; "HOLD" key; SECUR-LOC and auto-standby.

MODEL CP-460

OUR PRICE $139.95

DESCRIPTION
As above, plus speakerphone for hands-free conversation.

COBRA REMOTE RECHARGER

MODEL CA-21
Optional Remote Recharger For Charging Away From Base Unit.

$12.95

CP-447

CP-440S

CP-445S

CP-450-460

RD-4100 RD-3100 RD-5100

NEW! COBRA TRAPSHOOTER™ Super Heterodyne Radar Detector Series

Dual Band, Super Heterodyne, Super Sensitivity, Alarm-Audio, Visual & "Lockout"

MODEL RD-3100 OUR PRICE $99.95 **MODEL RD-4100 OUR PRICE $139.95** **MODEL RD-5100 OUR PRICE $179.95**

DESCRIPTION RD-3100 TRAPSHOOTER
So tiny yat sansitiva and accurata. ***Perfect for any vshicle Csrs, Trucks, Motorcycles***

FEATURES
- Rasponds to "X" & "K" band spaad radar fraqancias, tha only onas approvad by tha FCC.
- Cobra "LOCKOUT" raducas falsa alarts from out of band signals.
- Easy inatallation...just plug powar cabla into cigar lightar.
- Valcro fastanars with mounting brackat used for dash board installation.
- Ravarsibla mounting brackat for Visor placamant.
- Small and compact...only 4-1/8" x 3-1/8" x 1 3/18"H.
- Rapatition rata of alarm incraasas with signal strangth. Tha closar tha datactor gats to a radar sourca tha fastar tha alarm turns on and off. Whan vary closa, tha alarm ramains on.
- 5 sagmant LED signal strangth/Ranga matar.
- On/Off control.
- Voluma control.
- Attantion gatting audibla alarm.
- Highway/City switch.
- Alarm tast button allows you to sat alarm voluma.

DESCRIPTION RD-4100 TRAPSHOOTER PRO II All faaturas of RD-3100 plus:
EXCLUSIVE SIGNAL SENSOR Raducas annoying falsa alarms. This maans fawar falsa alarts from low laval transistory in-band signals. Signal Sansor operatas in tha city moda only whara you ara likaly to coma in contact with in-band intarfaranca from microwava intrusion alarms and microwava door opanars. Tha Cobra Trapshootar Pro II incorporatas; **NO FALSE** circuitry alliminatas falsa alarms causad by poorly dasignad or dirty radar datactors. **LOCKOUT** circuitry raducas falsa alarms from out-of-band radar sourcas such as microwava and satallita links, and fast food microwava ovans. Both faaturas ara in operation 100% of tha tima ragardlass of tha highway/city moda switch position.

FEATURES
- Cobra's Exclusiva SIGNAL SENSOR. • Valcro® fastanars for dash board.
- Easy to install without tools...just plug into cigar lighter.
- Datachabla clip for Visor mounting. • Small and compact.. only 5-1/4"W x 1-5/8"H x 5"D.

DESCRIPTION RD-5100 TRAPSHOOTER PRO II REMOTE
All tha faaturas of tha RD-3100 and RD-4100 plus:
Tha RD-5100 is a ramota mountad radar datactor with "Disguisa" Covar. Tha antanna modula mounts bahind tha car's grilla. Tha datactor portion mounts undarnaath tha dash and disguisas tha control with its covar. Dimansions: 4-3/8"W x 5-3/4"D x 1-1/2"H.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BEL MICRO EYE XKR-VII — DASH/VISOR MODEL

MODEL 834 OUR PRICE **$169.95** *Specially Made For The Professional Driver* **NEW!**

DESCRIPTION

The most sensitive and selective Superheterodyne dash/visor detector in the world, equipped with a completely new microprocessor, new circuitry, new antenna and new appearance.

FEATURES

- Sensitivity maximized by RSD (Radar Signal Discriminator) to eliminate extraneous signals and our FILTER mode, designed for instant computerized analysis of incoming signals.
- Three operational switches: POWER: Off/On; RSD (Radar Signal Discriminator) with a LO (Local) and a LR (Long Range) position, and FILTER mode with LO and LR positions.
- Alarm: Red LEDs will light up in sequence as signal strength increases. When all Red LEDs are lit and signal strength continues to increase, all Red LEDs will flash simultaneously.
- Microprocessor controlled. • Multiple pitch sound.
- Amber LED pulses to indicate LO or LR position.
- **Accessories Included:** Adjustable Dash bracket, Visor clip, Velcro, Cigarette lighter plug.
- **Compact Size:** 1½"H x 3¾"W x 4¼"L.

MODEL 834-S OUR PRICE **$199.95**

FEATURES Same as the above PLUS:

The Bel MICRO EYE XKR-LR - Dash/Visor, model 834-S is ***hand-crafted*** and ***tuned*** by specially trained technicians. All electrical components are matched for tolerance to give optimum performance. Critical components are individually tested to ensure they meet our rigid specifications.

BEL MICRO EYE XKR-VR — REMOTE MODEL

MODEL 837

OUR PRICE **$179.95** **SPECIAL!**

DESCRIPTION

The smallest remote Superheterodyne model on the market. Very compact size enables easy installation in a variety of hidden locations.

FEATURES

- Separate audio alerts for X and K band.
- Compact Antenna Unit (only 4 ⅛" long) fits behind the grille of almost all foreign and domestic vehicles.
- 2-way switch, LO (Local) and LR (Long Range).
- Amber LED indicates Long Range position when On; Local position when OFF.
- Green LED indicates Power ON.
- Alarm: Red LED flashes, plus audible alarm for first 7 seconds. Then only an audible click is heard plus the Red and Green LEDs flashing alternately.
- Distance: The beep rate and flashing rate indicate distance to the radar source. The faster the rate, the closer the source.

Accessories Included:

- Cigarette lighter plug.
- Mounting accessories.
- Velcro for mounting ultra slim control unit.

SPECIFICATIONS

Sub-Compact Control: 9/16"H x 3⅛"W x 1¾"L. **Antenna:** 4⅛" x 3⅛" x 1¼". **Operating Frequencies:** X Band: 10:525 GHz ±80 MHz, K Band: 24:150 GHz. **Antenna Type:** Half Hora and Microstrip. **Power Requirements:** 12VDC nominal, 10-14V limits. **Current:** 350 mA. **Temperature Range:** −20°C to +80°C (−4°to +176°F).

BEL MICRO EYE VECTOR

THE FIRST DETECTOR WITH GaAs DIODES

MODEL 870-B OUR PRICE **$149.95** **NEW!**

DESCRIPTION

Until now, GaAs diodes have only been used in sophisticated military radar equipment. The **MICRO EYE VECTOR** is the first consumer electronics product equipped with this new technology. Why GaAs diodes make the difference: lower threshold allows for a better signal to noise ratio, lower signal conversion loss, higher barrier reduces noise. Quite simply, GaAs diodes increase the sensitivity of the **MICRO EYE VECTOR.**

FEATURES

- Separate audio alerts for X and K Band.
- Three operational switches: Power: On/Off; RSD (Radar Signal Discriminator) to minimize extraneous signals with a LO (local) position and a LR (long range) position; Filter mode designed for instant computerized analysis of incoming signals with LO and LR positions.
- Alarm: Red LEDs will light up in sequence as signal strength increases. When all Red LEDs are lit and signal strength continues to increase, all Red LEDs will flash simultaneously.
- Accessories included: Visor bracket, Velcro®, Cigarette lighter plug.

SPECIFICATIONS

Size: 3/4"H x 3-1/8"W x 4-1/2"L. **Operating Frequencies:** X Band: 10: 525 GHz, K Band: 24: 150 GHz ±110 MHz. **Antenna Type:** Microwave horn, single ridge waveguide. **Power Requirements:** 12VDC nominal, 10-14V limits. **Current:** 190 mA. **Temperature Range:** -12°C to + 70°C (+10°F to +158°F).

BEL MICRO EYE XKR-IX DASH/VISOR MODEL

MODEL 864 OUR PRICE **$89.95** **NEW!**

DESCRIPTION

Superheterodyne detection that fits in your pocket. A great performer with super value!

FEATURES

- SIGNAL CONCENTRATOR® for Optimum performance.
- Pre-set for full-sensitivity.
- Separate audio alerts for X and K Band.
- Amber LED pulses to indicate operation of the built-in computer.
- Red LED indicates proximity to signal source: the faster the flash rate — the closer the source. (Police Radar).
- Visual and audio alerts for total protection.
- **Accessories Included:** Dash/Visor bracket, Velcro, Cigarette lighter plug.

SPECIFICATIONS

Operating Frequencies: X Band: 10:525 GHz, K Band: 24:150 GHz ±110 MHz. **Antenna Type:** Microwave Horn, single ridge waveguide. **Power Requirements:** 12VDC nominal, 10-14 V limits. **Current:** 190 mA. **Temperature Range:** -12°C to +70°C (+10°F to +158°F). **Dimensions:** 3/4"H x 3-1/8"W x 4-1/2"L.

BEL SUPREME DETECTOR-MIRROR

MODEL 850

OUR PRICE **$199.95** **SPECIAL!**

DESCRIPTION

The only combined radar detector and mirror **Superheterodyne** in the world! Microstrip antenna permits extraordinary thin design.

FEATURES

- Separate audio alerts for X and K band.
- Microprocessor controlled, Superheterodyne Circuitry.
- Mounts easily over any existing rear view mirror with expanding spring-loaded clips.
- Front and rear signal detection.
- Four operational switches: POWER: Off and On; RSD (Radar Signal Discriminator) to maximize extraneous signals with an L (Local) position and LR (Long Range) position; FILTER mode, designed for instant computerized analysis of incoming signals with LO and LR positions: LEDs: ON and OFF.
- Alarm: Red LEDs will light up in sequence as signal strength increases. When all Red LEDs are lit and signal strength continues to increase, all Red LEDs will flash simultaneously.
- Removable cord with lighter plug.

SPECIFICATIONS

Size: 12¼"H x 3½"W x 1½"L. **Operating Frequencies:** X Band: 10:525 GHz ±80 MHz, K Band: 24:150 GHz ±180 MHz. **Antenna Type:** Microstrip Antenna. **Power Requirements:** 12VDC nominal, 10-14V limits. **Current:** 350 mA. **Temperature Range:** −20°C to +80°C (−4°to +176°F).

TELEPHONES

COBRA FULL-FEATURED CORDED PHONES

MODEL ST-500

OUR PRICE $39.95

FEATURES
- Switchable pulse/tone dialing.
- 40 Number memory with last number redial.
- Battery back-up for memory.
- Fully modular design.
- Electronic ringer with HI, LO and OFF positions.
- **Wall mountable.**

NEW!

COBRA FULL-FEATURED CORDED PHONE

MODEL ST-610 NEW!

OUR PRICE $65.00

FEATURES
- Switchable pulse/tone dialing.
- 13 Number memory with last number redial.
- Hands free speakerphone.
- Clock • Call timer.
- Electronic hold.
- Fully modular design.
- Battery back-up for memory.
- **Wall mountable.**

COBRA NEW! FULL-FEATURED CORDED PHONE

MODEL ST-600

OUR PRICE $59.00

FEATURES
- Switchable pulse/tone dialing.
- 13 Number memory with last number redial.
- Hands free speakerphone.
- Electronic hold.
- Fully modular design.
- Battery back-up for memory.
- **Wall mountable.**

COBRA FULL-FEATURED CORDED PHONE

MODEL ST-660 OUR PRICE $74.95

FEATURES
- Switchable pulse/tone dialing.
- 58 Number memory with last number redial.
- Hands free speakerphone.
- Clock • Call timer.
- Dialed number display.
- Alarm • Electronic hold.
- Fully modular.
- Battery back-up for memory.
- **Wall mountable.**

MODEL ST-662 OUR PRICE $89.95

FEATURES

SAME AS ABOVE PLUS:
- 2-Line with conferencing capability.
- Line status indication.
- Separate ringer for each line.

COMDIAL 2001 PHONE

MODEL 2001-C

OUR PRICE $79.95

FEATURES
- Hands-free operation as a speakerphone while on desktop.
- Functions as handset when picked up.
- Four-number automatic dialer.
- Last number redial.
- Digital clock with timer.
- Display of number dialed.
- Electronic ringer with control.
- Programmable pause.
- Chain dialing.
- Hold button with LED indicator.
- Tone dial only. Desktop styling.

COBRA ST-400 SERIES 2-PIECE SLIMLINE CORDED PHONES

MODEL ST-401 OUR PRICE $17.95

MODEL ST-405 OUR PRICE $19.95

MODEL ST-410 OUR PRICE $29.95

MODEL ST-412 OUR PRICE $59.95

DESCRIPTION

Cobra telephones present their latest bevy of beauties The Fabulous 4. Their attractive decorative styling goes with any decor. They are available in today's fashion colors. Each cradle mounts easily on wall or sits on table or desk. Handset is designed for maximum comfort. Lets start off our lovely line-up with the **ST-401** which will work in conjunction with your present telephone system whether it's touch button or rotary dial. It is fully modular, as is the rest of this series, so no installation is required. It features last number redial, Cancel key, to disconnect without returning to base, Mute key for privacy and a mechanical (bell type) ringer with an on/off switch. Next in our line-up is the **ST-405** with tone (DTMF) dialing. It works with MCI, Sprint®, U.S. Telephone, All Net, and other alternate long distance services. It features a Cancel key, 10 foot coiled cord, Lighted dial and Mechanical (bell type) ringer with on/off switch. The next model, the **ST-410**, has switchable tone or pulse dialing. This allows the telephone to be used on any phone system. It also features Electronic Memory, Stores up to 12 different numbers, Last number redial, Cancel Key, 10 foot coiled cord, Mute key, 3 position ringer (tone, bell & off), Lighted dial and Memory-index card on the base. Last, but hardly least, is the **ST-412**. This phone has 2 line capablility with hold and conferencing. It features Switchable tone or pulse dialing, 12 Number memory, Bell ring for line one and a tone type ring for line 2, Last number redial, Cancel and mute keys, 10 foot coiled cord, lighted dial and a Memory-index card on the base. What a line to choose from to fit your special needs. All of the above models come in white, beige or brown.
- **Wall mountable.**

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

TELEPHONE ACCESSORIES

BP TWO WAY LINE ADAPTER

MODEL TA-1351

OUR PRICE $16.95 SPECIAL!

DESCRIPTION

The TA-1351 is ideal for residential, professional or small business use. It permits incoming phone call on either line of two-line system to be answered by a single line telephone.
Dimensions: 1-3/4"H x 4-5/8"W x 6-1/4"D.

TWO WAY LINE ADAPTER WITH CONFERENCING

MODEL TA-1352

OUR PRICE $24.95

DESCRIPTION

Same as above, but also has conferencing.

BP TELEPHONE LINE TAP DETECTOR

MODEL TA-1356 **OUR PRICE $29.95** NEW!

FEATURES

- Silently tells you whether someone else is listening to your phone conversation!
- Indicates presence of tapping device, if line is busy or extension is being monitored.
- Makes phone more secure, alerts you to unauthorized listeners.
- Prevents interruptions and provides peace of mind.
- Works on all outgoing or incoming calls.
- Use on any phone — no interference with normal operation.
- Adjusts for all telephone installations. • No power required.
- Dimensions: 1-1/4"H x 3-1/4" W x 5-1/2"D.

BP TELEPHONE AMPLIFIER

MODEL TA-1353

OUR PRICE

$19.95 SPECIAL!

DESCRIPTION

Allows you to conduct telephone conversations while working without tying up your hands. Also, it will allow your family and friends to participate in phone conversation together.
Dimensions: 1-3/4"H x 4-5/8"W x 6-1/4"D

BP AUTO CALL RECORDER

MODEL TA-1357

OUR PRICE

$29.95 NEW!

DESCRIPTION

Electronic marvel tapes phone calls automatically/legally. Keep a permanent record of all phone conversations. The TA-1357 starts your recorder only when your phone, or extension, is lifted and stops when you hang up.
Dimensions: 1-1/4"H x 3-1/4"W x 5-1/2"D.

COMDIAL CHARACTER TELEPHONES

NEW!

MODEL TEIF-8000 Mickey **OUR PRICE $59.95**

MODEL TEIF-8030 Kermit **OUR PRICE $59.95**

MODEL TEIF-8010 Snoopy & Woodstock **OUR PRICE $59.95**

DESCRIPTION

The bright shinny faces of Kermit, Mickey, Snoopy and Woodstock, our favorite cartoon characters, bring joy and fond memories to all. Include these characters in your daily telephone lives. They're wonderful, functional conversational gifts for family and friends. These telephones work on Touch Tone Service only, they will not work on rotary or pulse service.

SELECTRONICS ULTRADIAL™ PORTABLE AUTOMATIC PHONE DIALER

MODEL AD-85

OUR PRICE

$59.95 NEW!

DESCRIPTION

ULTRADIAL is the smallest portable automatic dialer with an alpha-numeric keyboard. It features an electronic phone directory, four function, eight digit calculator and a time clock. It's small and lightweight, can fit in your pocket and only weighs 4 oz. Works on most phone systems, rotary or pulse. It's compatible with alternate long distance services. Has a pause feature and holds up to 32 digits per number. To place a call simply enter the name or 1st character of name and ULTRADIAL will search for it. Then hold it up to the phone mouthpiece and push dial. It will automatically dial at unbelievable speed. And there's automatic last number redial as well.

SUPERCALL 2 LINE MULTIFUNCTION COMPUTER TELEPHONE

MODEL HT-660/2

OUR PRICE $209.95

FEATURES

- 2 line system.
- 3 way conference calling.
- Hold key for either line.
- Speaker phone with mute.
- Tone/Pulse switchable works on all systems good for alternate long distance service.
- 60 memories, 32 digits (works on all systems).
- Call timer. • Clock with alarm.
- Digitron Readout for all funtions.
- Last number redial. • Calculator.
- Auto repeat dialing (busy signal) up to 16 times, 32 digits.
- Usable on PABX systems.
- AC adaptor available.
- Hi Low ringer switch.
- Permanent ni-cad emergency back-up battery.

MODEL HT-660

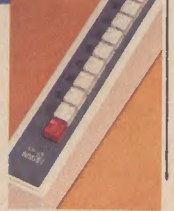
OUR PRICE $179.95

Single Line Multifunction Computer Telephone.

MODEL SH-10B

OUR PRICE $79.95

Optional 10 button key strip for multi-line capability.



SUPERFONE AUTOMATIC CALL DIVERTER

TRANSFER ANY IN-COMING CALL TO ANY OUT-GOING NUMBER YOU WISH

NEW!

MODEL TA-220

OUR PRICE $99.95

DESCRIPTION

Expecting an important call and you just can't be in two places at the same time? Now you don't have to be! With the new SuperFone Automatic Call Diverter you can receive a call at any location you choose to be.
When a recorded message just won't do and the personal touch is a must, use the Call Diverter to service you.
The Call Diverter requires two line service, one as an in-coming line, the other as an out-going line. Simply program in the telephone number of the place where you will be located. The Call Diverter will receive your in-coming call and transfer it to you at the pre-programmed number. It features a timer which you can choose to set for 4 minutes or 16 minutes or not at all. Once a call is diverter to you, you become the initiator of that call, (not the original party), and will be charged as such. The timer allows you to monitor the time spent on the call and will clear the line when the alloted time is up. It is switchable from tone to pulse dialing. It can be placed on a desk or wall mounted.

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

ANSWERING SYSTEMS

TOSHIBA EXECU SECT THE TALKING DUAL CASSETTE ANSWERING SYSTEM

MODEL **TCD-50** REG. $199.95 OUR PRICE **$99.95**

FEATURES

- A delightful feminie voice informs you of your messages which includes the day and time they were received.
- Optional message limitations from 30 seconds to the length of tape.
- When the tape is full, the voice courteously informs caller to try again at a later time.
- Lightweight remote key with security code common only to your machine.
- Once messages are h. ard you can rewind, repeat or record a new outgoing message.
- Built-In microphone presents the option of recording important conservations or note dictation.
- Built-In monitor for screening call befor they're answered.
- Gives the time at the push of a button. • Extremely attractive and easy to install.

PANASONIC EASA-PHONE ANSWERING SYSTEM AND TELEPHONE IN-ONE WITH BEEPERLESS REMOTE CONTROL FOR PLAYBACK

MODEL **VA-8035**

OUR PRICE **$199.95**

DESCRIPTION

EASA-PHONE the answaring system/dialar functions togathar or indapendantly. The handsat can be pluggad into any phona jeck or can ba usad in conjunction with tha answering mechina. Paopla with rotery sarvica can use this solid steta phone for alternata servicas by switching from pulse to true tona for billing and numbar codes.

FEATURES

- Sound-codad baaparlass remota control for playbeck.
- Handsat has tan numbar autometic dialar cepability.
- Monitor incoming cells.
- Answaring systam hes incoming & outgoing tape faatura with back-up, alarting callar of a full tapa and to try again latar.
- Holds up to 16 digits par numbar. • Automaticelly radials busy lines.
- Pausa faatura ellows 2 slots for one number whan storing numbers for alternativa systams.
- On hook dieling laeves hands frea for other dutias.
- Masseges cen be limitad to ona minuta or until tapa is full.
- Remota givas you access to messegas from any phona, you can also rawind or skip massagas at any point.
- Racord 2-way conservation or usa for dictation.
- Seva tha cost of a call by satting the phone to ring five timas to inform you that there ara no massages.

COBRA CORDLESS TELEPHONE-CLOCK RADIO

MODEL **RP-740S**

OUR PRICE **$69.95**

FEATURES

- Makas and racaivas phona cells anywhara insida or outsida your house (up to 100 ft. away from clock radio).
- No cords or wiras to tia you down.
- Automatically radials last telaphona number cellad if you gat busy signal.
- Muta: Allows you to talk to somaone in tha room without party on tha lina listening.

AM-FM ELECTRONIC DIGITAL CLOCK RADIO FEATURES

- AM-PM indicetor. • Easy to read larga LED time display with high-low dimmer switch.
- Snooza elarm. • Low silhouatta dasign. • Walnut styling. • Slida rula dial indicator.

CORDLESS TELEPHONE CLOCK-RADIO

MODEL **RP-780S** OUR PRICE **$135.00**

DESCRIPTION

Mini Siza Cordiass Taiaphona-Clock Radio with Built-In Spaakerphona.

FEATURES

- 9 Number Automatic Dialar with Computer Mamory. • Lest number rediel.
- Hands Fraa Conversation. • Tha family can speek and listen to any caller.

Optional ramote rechergar CA-21 for racherging away from basa unit. . .$12.95

HEART THE TIME CONNECTION™

MODEL **TC-500**

OUR PRICE **$36.95** SPECIAL!

DESCRIPTION

The Time Connection combines precision time keeping with voice-chip technology. It logs every message with the time and date so when you play back your messages you know exactly when the call was made. The Time Connection fits any standard answering machine, and can be installed in seconds.

TT SYSTEMS MESSAGE-MINDER 2-LINE ANSWERING MACHINE WITH REMOTE

MODEL **MM-1802**

OUR PRICE **$119.95**

FEATURES

- Simple installation - No monthly telephone charges.
- Monitor calls without caller's knowladge.
- Twin cassettes.
- Message received indicator.
- Two way record. • Adjustable ring delay. • Volume control. • Fast forward.
- Quick erase. • Power on indicator. • Built-in condenser microphone. • UL approved.

DESCRIPTION

The Message-Minder is the first answerer capable of automaticaly taking call from two separate telephone lines. With the MM-1802 you can talk on one line while it takes in-coming calls on your unattached line. The line selector switch allow the user to choose: A) Line 1 operation only. B) Line 2 operation only. C) Automatic operation. When in the auto position, the Message-Minder will automatically take calls from either line.

In-coming messages can be controlled by the calling party or voice-activated for a message up to 3.5 minutes. Dimensions: (MM-1802) 9"x11"x3", (Remote) 2-1/4"x2-1/2"x5/8"

COBRA ANSWERBACK™ with BEEPERLESS REMOTE

DUAL CASSETTE TELEPHONE ANSWERING SYSTEM

MODEL **AN-8500**

OUR PRICE **$99.95**

DESCRIPTION

The AN-8500 is a microprocessor-controlled answering system with beeperless remote control, dual cassettes, "VOX", Selectable "Toll Saver", LED call counter and "Memo Record" to record mamo messages on incoming tape, at the machine.

MODEL **AN-8400** OUR PRICE **$89.95**

Same as above with Beeper Remote.

MODEL **AN-8300** OUR PRICE **$74.95**

FEATURES

•Full microprocessor control features/functions. •"One-Touch" control for Auto-Answer and Auto-Play. •Automatic voice activation (VOX) for all messages. •"Electronic Bullentin Board" memo function to record household messages. •"Call Monitoring" to screen telephone calls at home.

COBRA TELEPHONE ANSWERING SYSTEM

MODEL **ANP-3770**

OUR PRICE **$125.00**

FEATURES

ANSWERING SYSTEM

- **Remote Key**—puts talephona massagas at your fingartips from anywhere in tha world.
- **Save or Cancel Remote Mode Switch**—If you choose sava, massages ara ratained for future rafarance. If you choose cancal, messagas ara automatically arased as naw incoming massagas ara racorded.
- **Toll Sever**—lats you sava tha cost of a telephona call when calling in if you hava no massegas.
- **Microprocesesor Control**—simplifies operation. Insuras the quality the public axpects from Cobre products.
- **Duel Casaette**—Outgoing end incoming massage tapas you replaca yourself without incurring costly chargas.
- **Vox (voice ectivation)**—allows a callar to racord massages up to 2 minutas long.
- **Disconnect Director**—Tha Cobra Answaring systam recognizas e dial tone end disconnacts tha phona line whan a callar hangs up without leeving e messaga.

TELEPHONE

- **Installs in seconda**—simply plug Cobra phone into Answering machina or into talaphone jack.
- **End monthly talephone rental coste**—raturn your present phone to tha talephona company.
- **10 foot colled cord**—lats you walk whila you talk.
- **Hook Switch**—allows hanging up on any flat surfeca.
- **Mute Button**—talk to somaona in e room without putting your hand ovar mouthplace. Party on the lina cannot listen to your conversation.
- **Radial**—ona button redial of last phona number callad if you gat e busy signal.

SPECIFICATIONS

Announce tepe: Endlass cassetta tapa—20 sac. **Incoming tape:** C-60 cassetta (laaderlass), 2 minuta max. par massage, VOX controlled, autometic shutdown on hangup. **Tapa apeed:** RECORD/PLAYBACK: 1 7/8 inchas/seconds FAST/FORWARD/REWIND: 120 sec. max time. **Dimanelona:** 9 3/4" D x 3 5/8" H x 12 1/2" W. **Waight:** 6.5 lbs.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

ERGO HUSH™ 80 PORTALBLE SILENT PRINTER

FEATURES

- One of the quietest printers ever made. It has fewer working perts makes it quieter and more reliable.
- it has an 80 charecter-per-second bidirectionel printing capability, prints ecross and back.
- Competible with Commodore, Centronics Parallel, or RS232 interfeces.
- Internally stored paper means it's always ready to print.
- Printer includes pre-loeded paper supply end interfece cable.
- Optionel: Rechargeeble bettery opereted version; HUSH-80PR & HUSH-80SR are AC/DC.
- Weighs less than 2 lbs., fits edge-on in a briefcese and tekes up no more space then a phone on a desk.
- When you find yourself running out of paper the HUSH 80 can print 160 characters per line in its condensed print mode.

SPECIFICATIONS

- Full 80-column dot-metrix thermel printer (8-1/2" peper width). • Dot-addressable grephics.
- 80 cherecter-per-second bidirectionel printing speed. • Programmable line spece.
- Up to 192 charecters and symbols. • Medie: Thermel roll paper (8-1/2"x 90').
- Compect end lightweight, only 25 oz. • Quiet, less then 56 db.
- 8 month werrenty. • Fixed free efter-werrenty repeir progrem.
- Availeble with Centronics Perallel, RS232 or Commodore Interfeces.

NEW!

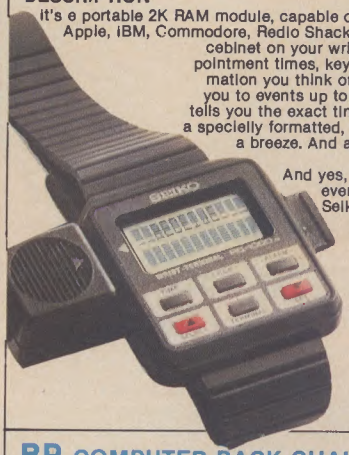
MODEL	INTERFACE TYPE	OUR PRICE
HUSH-80CD	Commodore	SPECIAL! $ 79.95
HUSH-80P	Centronics Type	119.95
HUSH-80S	Serial RS232	119.95
HUSH-80PR	Centronics/Battery	139.95
HUSH-80SR	Serial/Battery	139.95

Ergotherm Brand Paper (90 ft. roll) Equal 100 letter sheets per roll **model ETP-1** $6.49

SEIKO PC DATAGRAPH

The World's Smallest Computer Terminal

NEW!



DESCRIPTION

It's e portable 2K RAM module, capable of storing and recelling virtually any kind of data from Apple, IBM, Commodore, Redio Shack end other populer personal computers. It's like a file cebinet on your wrist, with 12 distinct data files for trevel schedules, appointment times, key dates, foreign word transletions — any kind of information you think of. It's a powerful wrist alarm you can progrem to alert you to events up to a yeer in advance. And a true "world" timepiece that tells you the exact time of day in 80 cities around the globe. It comes with a specielly formatted, menu-driven software program that makes date input a breeze. And a special ceble that hooks directly to your computer's RS232C seriel output port.

And yes, it is a watch — the most sophisticated quertz watch ever developed. Which is exactly whet you'd expect from Seiko® . Because when it comes to new ideas, the world is coming to Seiko.

MODEL	OUR PRICE
RC-1000-1 for Apple IIC	$119.95
RC-1000-2 for Apple II, II+, IIE	$119.95
RC-1000-3 for Commodore 64	$119.95
RC-1000-4 for IBM PC, PC JR., IBM Capatibles	$119.95
RC-1000-5 for Redio Shack TRS-80 model 100, NEC 8201	$119.95

BP COMPUTER BACK CHAIRS WITH OAK VENEER CHAIR

MODEL CH-95 OUR PRICE $29.95

MODEL CH-96 OUR PRICE $36.95

New Adjustable Model!

NEW!

DESCRIPTION

Now you cen ease yourself into the New Oek edjustable Beck Cheir or if you prefer the tradionel Beck Chair where you'll be sitting pretty. With the new edjustable Beck Cheir you can reise or lower the seat to correspond with the verying levels of your computer, typewritter, desk for the most comforteble position. It elso has wheels for eesy mobility. Eech chair cen help elleviete annoying beck pein efter sitting severel hours et home or office. Either Beck Chair relieves the discomfort of a conventionel cheir by chenging the stress points on the body. Insteed of sitting et a 90° engle forcing your weight to be supported by the lower beck, the Beck Chair belances your weight proportionelly through your lower body end legs. No beck rest is needed beceuse your spine naturelly straightens to its proper position. You're eble to relex end concentrate more efficiently without huntching over end tiring quickly. It's e perfect eddition to your home computer set-up, artists table or for the working executive.

BP FLOPPY DISKETTE STORAGE CASE

MODEL COMP-70

OUR PRICE $14.95

FEATURES

- Holds 70 Floppy Diskettes. • Contemporary Flip Design Case.
- Smoke Plastic Lid. • High Impact ABS Plastic Base.
- Index Dividers with Adjustable Tabs.

DELUXE FLOPPY DISKETTE STORAGE CASE

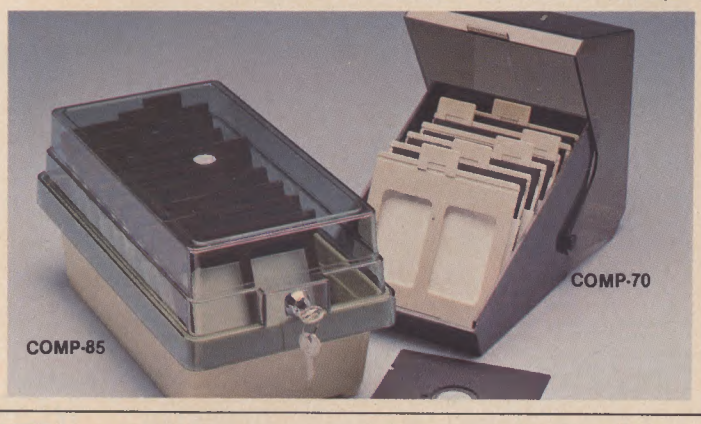
NEW!

MODEL COMP-85

OUR PRICE $19.95

FEATURES

- Holds 85 Floppy Diskettes. • Smoke Plastic Top.
- High Impact ABS Base. • Two Piece Contemporary Design.
- Index Divider with Adjustable Tabs. • Lock with Two Keys.



LEDU COPY HOLDER

MODEL 3600R

OUR PRICE $29.95

DESCRIPTION

Whether you're typing e letter or entering dete into your personel computer, the Copy Director is the best wey to keep your information in order. The 3600R hes an adjustable holder which cen be menuevered to e desired position for comfortable viewing. The soft green cursor ber magnifies copy for easy reading. The 9¼"H erm is mounted in a heavy duty base. Comes in chocolate brown with beige copyboard.

MODEL 3600C

OUR PRICE $29.95

DESCRIPTION

The 3600C copyholder attaches to table or desk edge by a large adjustable clamp. its 33" erm allows you to move the copyboard to a desired position. It also hes a soft green curssor ber which magnifies the copy for eesy reading.

HANDSOME TWO DRAWER OAK FILE

MODEL CF-22

OUR PRICE $89.95

DESCRIPTION

This beautiful, functional, solid wood, two drawer oak file, is a magnificient eddition to any home or work piece. Its pleasing simple lines blend with any interior bringing warmth to its surroundings. Use it to organize business or personal files. The cabinet drawers are 13" deep and have hanging steel rails to fit stend files.
Dimensions: 28-1/4"H x 16-1/4"W x 17"D.

NEW!

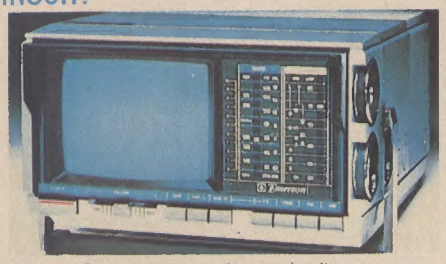
CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

CONSUMER PRODUCTS

EMERSON 5" BLACK & WHITE TV, AM/FM/PSB/WB—3 WAY POWER PORTABLE COMBINATION WITH BUILT—IN BATTERY RECHARGER CIRCUIT.

MODEL VR-35

OUR PRICE $99.95



FEATURES
- 5" "Ultra Bright" picture tube.
- Built-in sun shade and screen.
- Seperate tumbwheel rotary TV and Radio tuning selectors.
- Receives Public Service Broadcasts and National Weather Control.
- Slide volume control.
- Pushbutton UHF/VHF & VHF H selector.
- 3-1/4" full range speaker.
- Top mounted telescoping TV/Radio antenna. • Built-in battery recharger circuit.
- AC/DC (line cord) /DC 12 volt car adaptor included.
- Earphone jack (earphone included). • Folding stand/handle combination.
- Dimensions: 10-1/2"W x 5-3/4"H x 11"D • Weight: 11 lbs.

NEW!

Optional Custom Battery Pack model ERB-122 . . . . . $49.95

EMERSON 5-1/2" COLOR TELEVISION—AM/FM PORTABLE RADIO COMBINATION WITH BUILT-IN BATTERY RECHARGER CIRCUIT

MODEL PC-5 **NEW!**

OUR PRICE $249.95

FEATURES
- 5-1/2" "Ultra Bright" Color Tube.
- Rotary controls for contrast, vertical hold, brightness, tint and color.
- Wide "Easy Read" dial scale.
- Separate thumbwheel rotary TV/Radio tuning selectors.
- Slide volume and high/lo tone controls.
- Top mounted telescoping TV/Radio antenna. • Built-in battery recharger.
- TV external 75 ohm antenna input with 300 ohm adaptor included.
- AC/DC/DC 12 volt adaptor included. • Folding handle/stand combination.
- AM/FM radio receiver.
- 3" full range speaker. • Earphone Jack (Earphone included).
- Dimensions: 9-3/4"W x 12"D x 5-1/2"H. • Weight: 15 lbs.

Optional Custom Battery Pack model ERB-122 . . . . . $49.95

EMERSON 5" BLACK AND WHITE TV WITH AM/FM STEREO RECEIVER/CASSETTE PLAYER/RECORDER WITH BUILT-IN DETACHABLE SPEAKERS

MODEL XLC-555

OUR PRICE $199.95

NEW!

FEATURES
- High resolution 5" picture tube with sun screen.
- Built-in speaker in center section.
- Stereo "Feather Touch" cassette deck with auto stop and digital tape counter.
- Stereo AM/FM receiver with LED stereo indicators.
- Separate slide tone, balance and volume controls.
- Built-in battery recharger circuit. • Stereo headphone jack. • Phone input jack.
- Detachable full range modular speakers. • Combination UHF/VHF/FM telescoping antenna.
- Operates on AC line cord / 10 "D" cell batteries (not included) / Recharge battery (not included), Car adaptor (12 volt).
- Dimension: 19-3/4"W x 10-1/2"H x 9-1/2"D. • Weight: 14 lbs.

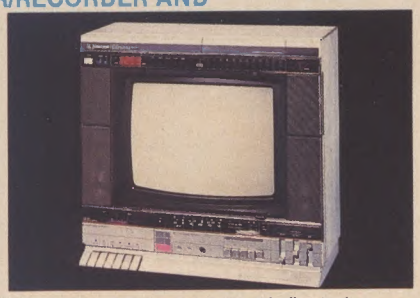
EMERSON 13" COLOR TELEVISION WITH AM/FM STEREO CASSETTE PLAYER/RECORDER AND DIGITAL CLOCK

NEW!

AN AUDIO/VIDEO CENTER ALL IN THE SIZE OF A 13" COLOR TV MTS/SAP STEREO TV BROADCAST ADAPABLE

MODEL AVC-13

OUR PRICE $319.95



FEATURES
- 13" Color television with dual full range speakers.
- 12 Station preset direct access electronic tuning.
- LED digital alarm clock with wake or sleep for TV or Radio.
- AM/FM stereo receiver section. • Cassette stereo recorder/player. • Automatic fine tuning.
- Stereo headphone jack. • Dual microphone inputs. • Slide, volume, balance, & tone controls.
- 75 ohm VHF & 300 ohm UHF & FM external antenna connectors.
- VHF & UHF antennas included. • 75 to 300 ohm antenna adaptor included.
- Stereo Broadcast Adaptable: through MTS (Multi-Channel TV Sound) jacks. (Works with optional decoder, See TVC-22 on this page.) Stereo broadcasts and second audio programs (such as different language) can be received and played back through a conventional stereo audio system.
- Dimensions: 20"W x 17-5/8"H x 16"D. • Weight: 30.8 lbs.

EMERSON VHS 14 DAY/4 EVENT WIRELESS REMOTE VIDEO CASSETTE RECORDER

CABLE TV COMPATIBLE

MODEL VCR-870

OUR PRICE

$299.95 **NEW!**

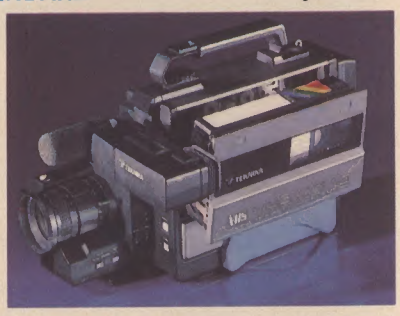
FEATURES
- 11 Function infra-red wireless remote control.
- 105 Channel cable hook-up.
- Compact "Slim-Line" design.
- Motorized front loading tape system.
- Program 4 different events for automatic recording within any two week period.
- Freeze frame and Speed search (forward/reverse).
- Picture sharpness control. • Electronic digital timer/clock display. • Preset up to 12 channels.
- Tracking control for aligning picture of any pre-recorded tape.
- Accessories supplied: Infra-red remote control with batteries included, 75 ohm connector cable, 300 ohm to 75 ohm and 75 ohm to 300 ohm antenna connector, UHF feeder cable and Quick/easy-use guide.
- Dimensions: 18.9"W x 13.2"D x 4.5"H. • Weight: approx. 20 lbs.

TEKNIKA VHS MOVIE CAMERA RECORDING AND PLAYBACK/VHS VIDEO STANDARD

NEW!

MODEL C-5010 With Carrying Case

OUR PRICE $1499.95



FEATURES
- Instant playback. • Autofocus.
- High-band Newvicon pickup tube.
- 8x Power zoom lens.
- Two-hour recording.
- Freeze frame speed search.
- Viewfinder warning—helps prevent shooting errors.
- Half-inch monochrome viewfinder—images can be monitored while shooting or during playback.

DESCRIPTION

The VHS Movie was designed to help you make video recordings, even if you have never used a movie camera before. This means that except for making a selection or two, all of the recording conditions will be taken care of automatically. It also operates manually, to achieve the highest quality reproduction. It features instant playback, for on-the-spot viewing and checking. After you've recorded your scene, play it back immediately afterward through either the electronic viewfinder or a directly connected TV set. It also has a built-in high performance unidirectional microphone, image check fuction, easy low-angle shooting, one-touch white balance adjustment, auto or manual aperture adjustment, date recording mechanism, editing and dubbing capability, remote control terminal, and battery/household AC/car battery power source compatibility.

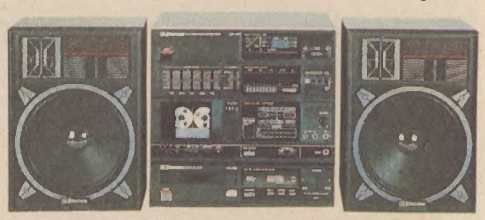
EMERSON COMPACT DISC, MATCHED MODULAR AUDIO SYSTEM

NEW!

MODEL CD-1000P

OUR PRICE

$449.95



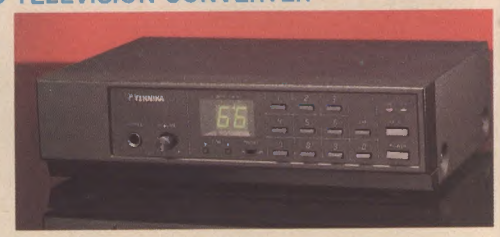
FEATURES
- Dual speed audible track search.
- 4 Digital multi-function LED display.
- Programmable compact audio digital disc player, with 3 beam laser pick-up system and 9 programmable memories.
- Programmable continuous repeat. • Motorized front loading. • Index & random music search.
- Speakers: 2-Way bookshelf size with 8" woofer and 2" tweeters in each enclosure.
- Audio Section: AM/FM stereo digital readout receiver section.
- Deluxe stereo cassette recorder/player. • 5 Band graphic equalizer.
- Dimensions: 13-1/4"W x 13-1/2"H x 11"D. Speakers: 9-7/8"W x 13-1/2"H x 7-3/4"D (ea.).

TEKNIKA STEREO TELEVISION CONVERTER

NEW!

MODEL TVC-22

OUR PRICE $149.95



FEATURES
- Multi-Channel TV Sound Decoder: Provides for enjoyment of stereo and separated audio program, (for bilingual broadcasting), events.
- Easy To Connect: There are no internal connections, so you can hook up the Teknika TVC-22 to your TV set and stereo amplifier in minutes.
- CATV COMPATIBLE: Gives access to all VHF and UHF channels, plus cable midband A-1.
- Direct Channel Access: Favorite channel can be preset and then later accessed by using the 10 channel selector buttons.
- Electronic Synthesizer Tuning System: Built-in electronic tuning system with AFT (Automatic Fine Tuning), automatically locks onto the best reception point and holds it.

SPECIFICATIONS

Power Source: AC 120V, 60 Hz. **Power Consumption:** 20W. **Channel Coverage:** VHF 2-13, UHF 14-69, CATV midband A-1. **Controls:** Power on/off switch, direct channel access buttons (10), SAP selector, forced mono switch, preset switch, fine up/down button, volume control (mechanical). **Antennas** VHF and CATV 75 ohms (unbalanced), UHF 300 ohms (balanced). **RF Output (to TV antenna):** Channel 3 or 4, 75 ohms (unbalanced). **Audio Output:** Left and right (controlled), headphone controlled (controlled). **Indication:** Channel number (7 segments), stereo (green), SAP (red), SAP ON (dot), forced mono (dot). **AFT:** Yes. **Cabinet:** Plastic front, metal top and rear. **Dimensions:** 11.41"W x 2.95"H x 7.48"D. Weight: 5.28 lbs. UL approved.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

CLOCK RADIOS/STEREO CASSETTE DECKS

RANDIX DIGITAL CLOCK CUBE

MODEL RCC-86 **OUR PRICE $69.95**

DESCRIPTION
The digital cube is an AM/FM/TV1/TV2 bands - Calendar Dual Alarm Cassette Clock Radio with a battery back up.

FEATURES
- Bright fluorescent readout.
- Wake to music, alarm or cassette.
- Dual alarm settings, with calendar.
- Dual alarm gives ultimate convenience of two wake-up calls.
- Battery back-up.
- Large, easy to use touch sensor snooze and Cassette player.
- Hi-Lo brightness jack.
- Earphone jack.
- Dimensions: 5 ¾"W x 5 ¾"H x 5 ¾"D.
- Lighted radio dial.

RANDIX TRAVEL CLOCK RADIO

MODEL RCL-50

OUR PRICE $19.95

FEATURES
- All the features of a standard alarm clock plus: AM/FM radio.
- Calendar.
- AM/PM indicator.
- Slide off-alarm-on selector switch.
- Direct dial scale.
- Mono headphone jack.
- 12 hour LCD digital display.
- Dimensions: 6"W x 3"H x 1"D.

RANDIX PORTABLE STEREO DUAL CASSETTE DECK WITH AM/FM

MODEL SCR-610

OUR PRICE $99.95

DESCRIPTION
The Randix® portable stereo dual cassette deck with AM/FM/FM stereo receiver is a compact system that lets you record from one tape to another.

FEATURES
- Dual front loading.
- Tape A playback.
- Tape B playback/record.
- 3 digit counter/reset.
- Continuous playback from Tape A to Tape B.
- Tape A to Tape B dubbing.
- Rotary volume/balance/tone control.
- Stereo headphone jack.
- Built-in condensor microphone.
- Led power/record level meter.
- Indicators include; power on, stereo, continuous play, dubbing, tape A and tape B.
- UL/FCC approved.
- Dimensions: 21"W x 7"H x 5'D.

RANDIX MUSIC CUBE

MODEL RCC-85S **OUR PRICE $79.95**

DESCRIPTION
The ultimate AM/FM FM Stereo Clock Redio with Stereo Cassette Player and Matching Speakers.

FEATURES
- Wake to buzzer alarm, radio or cassette.
- 59 minute sleep switch.
- Fluorescent green clock display.
- Power failure indicator.
- Top load-cassette.
- Snooze bar.
- Matching full range speakers.
- Hi/lo tone switch and hi/lo dimmer switch.
- Dimensions: 5¾"W x 5¾"H x 5¾"D.

SANYO AM/FM STEREO CASSETTE RECORDER

MODEL M-7100K

OUR PRICE $69.95 **SPECIAL!**

FEATURES
- Built-In Microphone.
- Pause Control.
- Stereo Expander Circuitry.
- Auto Stop.
- LED Record/Battery Check Indicator.
- Tape Counter.
- Variable Monitoring.
- AC/DC Operation.
- Multi-Voltage Capability.
- Jacks For Headphones & Speakers.

SANYO AM/FM STEREO CASSETTE RECORDER

MODEL M-7735 **OUR PRICE $135.00**

FEATURES
- Automatic Music Select System.
- Metal Tape Capability.
- 3-Digit Tape Counter.
- One-Button Recording.
- Full Auto Stop Mechanism.
- Timer Standby.
- Line-In & Line-Out Jacks.
- Built-In Condenser Microphones.
- AC/DC Operation.
- 6-Way Speaker System.

RANDIX AM/FM CLOCK RADIO, CASSETTE PLAYER TELEPHONE

MODEL CP-700

OUR PRICE $99.95

NEW!

DESCRIPTION
Randix's hes concisely erranged telephone, AM/FM clock redio and cassette player into one. This unique configuration fits neetly into the smellest of pieces or leaves plenty of room in your larger speces. The telephone is designed in their new "Folding Fone" fashion which can be used as a speakerphone for hands-free conversetion. The phone includes pulse dialing, mute and last number redial feetures.
The AM/FM clock radio hes en alarm, or you can wake up to music, e cassette player and a bright flourescent reedout with dimmer and e bettery beck-up (battery not included).
Its dimensions are 8-1/2" x 5" x 5". This new innovative design gives you the items you desire without the clutter.

RANDIX TRAVEL CLOCK/SMOKE DETECTOR

MODEL QCS-40

OUR PRICE $24.95

NEW!

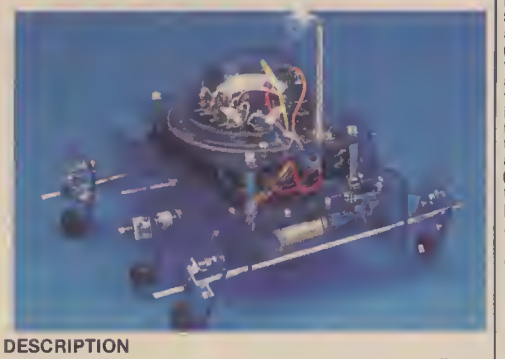
DESCRIPTION
Sometimes when taveling, whether on vacation or business, the unfortunete happens, e fire. Sleep sounder with the added protection of the Randix Smoke Detector/Alarm Clock. This detector is small, has an alarm test button and low battery elarm tone. Its power source is DC 9V battery. The clock is an analogue quartz, has en edjust elarm knob in rear and sounds off a buzzer at the preset time. It's power source is DC 1.5V.
Dimensions: 5-1/4"W x 2-3/8"H x 1-1/8"D

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

EDUCATIONAL KITS

MOVIT TURN BACKER
MODEL **MV-911**(blue)

OUR PRICE **$39.95**



DESCRIPTION
When this robot is about to hit a wall, just cry "Look out", and the robot will immediately turn to the left.
(Sensor/control PC board ready assembled).

FEATURES
- Movement: 3 legs on each side by crank motion.
- Control: Sound sensor including condensor microphone and printed circuit board.
- Power source (Not included): Battery type 1.5V "AA" x 4.

MOVIT AVOIDER
MODEL **MV-912**(blue) OUR PRICE **$44.95**

DESCRIPTION
An intelligent robot which knows how to avoid hitting walls. This robot emits an infra-red beam which detects an obstacle in front.
(Sensor/control PC board ready assembled).

FEATURES
- Movement: 3 legs on each side by crank motion.
- Control: Infra-red sensor including infra-red diode: photo diode/IC.
- Power source (Not included): Battery type 1.5V "AA" x 4 9V x 1.

MOVIT LINE TRACER II
MODEL **MV-913**(yellow)

OUR PRICE **$39.95**

DESCRIPTION
Guided by an infra-red light sensor this robot will automatically follow any black line drawn on white paper.
(Sensor/control PC board ready assembled).

FEATURES
- Movement: 3 wheels driven by 2 DC motors.
- Control: Infra-red sensor including infra-red diode/photo diode/IC.
- Power Source (Not included): Battery type 1.5V "AA x 2, 9V x 1.
- How to Play: Draw a black line on white paper board. Line width should be 10 mm minimum wide. Narrowest turning radius must be at least 15 cm.

MOVIT PIPER-MOUSE
MODEL **MV-915**(blue) OUR PRICE **$34.95**

DESCRIPTION
This is a Supersonic-Robot controlled by a Supersonic sound sensor and an electronic circuit (1 channel). Use the whistle attached to this kit and Piper Mouse will follow your commands immediately turning to the left, stop, turning to the right, stop, advance and stop.
(Sensor/control PC board ready assembled).

FEATURES
- Movement: 3 wheels driven by 2 DC motors.
- Control: Supersonic sound sensor including condensor microphone and printed circuit board.
- Power source (Not included): Battery type 1.5V "AA x 2, 9V x 1.

MOVIT PEPPY
MODEL **MV-916**(pink)

OUR PRICE **$24.95**

DESCRIPTION
The PEPPY has a two-ways sensor that is susceptible to noise and also to solid objects in its path.
When the sensor located in front comes into contact with a wall or other ostacle or hears a loud noise, such as a hand-clap, it will automatically turn to the left.
The PEPPY, after contacting the wall, by reversing and at the same time turning to the left will turn through 90 to 180 degrees and then resume its new course until it hits another object in its path. It's a new and exciting microage robot which is sure to give many happy hours to all the family.
(Sensor/control PC board ready assembled).

FEATURES
- Power source (Not included): Battery type 1.5V "AA" x 2.

MOVIT MEMOCON CRAWLER
MODEL **MV-918**(black)

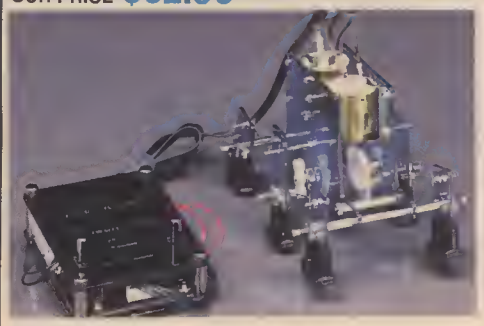
OUR PRICE **$74.95**

DESCRIPTION
This robot is memory controlled through the key board included in this kit and runs as per the program you input using this key board.
The key board has 5 different switches, forward, to the right, to the left, pause, sounds a buzzer and lights up (beams). This robot employs a sequence function static RAM 256 x 4 bit memory.

FEATURES
- Movement: 3 wheels driven by 2 DC motors.
- Control: Memory/Electronic circuit (through the Key Board). Element: 4 bit Static RAM. Modes: Right/Left/Forward/Pause/Buzzer/Beams (LED). Steps: 256 Steps (no repeat steps) approx. 0.7—0.3 sec./1 step.
- Power Source (Not included): Battery Type 1.5V "AA" x2 .9V x 1.

MOVIT MR BOOTSMAN
MODEL **MV-931**(blue)

OUR PRICE **$32.95**



DESCRIPTION
The MR. BOOTSMAN has six insect-like legs, 2-speed movement, and includes a control box. The unique MR. BOOTSMAN has six funny legs and can walk or run forwards or backwards, left or right, and when the leg movement on one side is reversed and the other side continues its forward action the MR. BOOTSMAN can execute 360 degree turns. You can use MR. BOOTSMAN for thrilling games of football or even pushing matches, and you can even program your own games.
Why not try it!.
- Power source (Not included): Battery type 1.5V "AA" x 2.

MOVIT CIRCULAR
MODEL **MV-935**(green)

OUR PRICE **$69.95**

DESCRIPTION
The brand new CIRCULAR model has two large wheels which roll this super robot left and right, forwards, or round and round. All the movements can be perfectly controlled by a hand-held remote control box. The CIRCULAR slips silently and smoothly along, making your friends stare in wonder, how does it move they must be asking themselves? It's a new robot from another age and can provide endless hours of amusement for all the children, and adults too!
(Sensor/control PC board ready assembled).
- Power source (Not included): Battery type 1.5V "AA" x 3, 9V x 1 Pce, for use Main body. Battery type 9V x 1 for use control box.

MOVIT MEDUSA
MODEL **MV-939**

OUR PRICE **$29.95**

DESCRIPTION
MOVIT MEDUSA is a walking robot with an electronic brain. Registering your command, this robot starts to hobbel on its 4 legs and stops automatically after a preset time. (Sensor/control PC board ready assembled).

FEATURES
- Movement: 2 legs on each side by crank shaft.
- Control: Sound sensor including condensor microphone/transistor.
- Power Source: (Not included): Battery type: 1.5V "N" x 2.

MOVIT S-CARGO

EDUCATIONAL ELECTRONIC ROBOT KITS

MODEL **MV-936**

OUR PRICE **$39.95** NEW!

DESCRIPTION

This is a sound sensor robot controlled by a condensor microphone and printed circuit board. Use the hand held sound activator that is included with this educationel kit and the S-Cargo will follow your commands by immediately roteting left, stop, forward end stop. Power source: "AA" x 2, 9V x1 (not included).

MOVIT NAVIS

EDUCATIONAL ELECTRONIC ROBOT KITS NEW!

MODEL **MV-938**

OUR PRICE **$49.95**

DESCRIPTION

This clever robot moves by reading the running commands, (white end black merkings you creete on e disk), with its infrered sensor. You control the robot by meking your own programming disk. You create the circle end the spaces by derkening spaces and leeving some blank. Movement: wheels, 2 motors. Control Method: Sensor/control circuit, Sensor—Infrered sensor, Element—photo interlamp, Control circuit IC + Trensistors. Power source: 1.5V "AA" x 2, 9V x 1 (not included).

MOVIT WAO

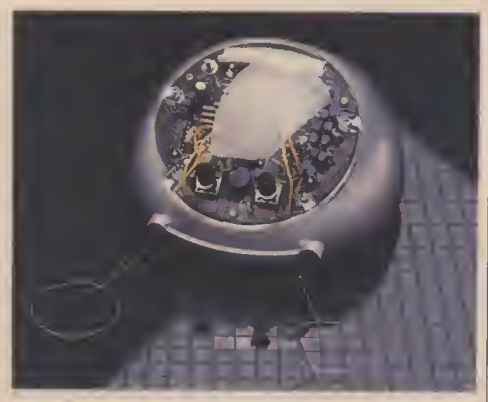
EDUCATIONAL ELECTRONIC ROBOT KIT NEW!

MODEL **MV-9511**

OUR PRICE **$99.95**

DESCRIPTION

The new "WAO" (Wise, Argent, Orb) robot, can teach the fundamentals of computer programming (i.e. flowcharts), perform graphics, and develop an awereness to robotics.
WAO has a custom micro computer chip planted inside its body. The micro computer stores a system progrem in ROM (2 K bytes) and e user program in RAM (128 X 4 bits).
WAO has the ability to perform any high grade programs, set in branch, interruption and subroutines. The robot has a penholder set at the center of its mechanism, this permits WAO to perform graphics.
The more you get associated with WAO, the more you shall be enabled to draw flow charts, and the system-thinking becomes your own. What performance WAO is nothing other than your own thinking.
WAO will undoubtedly teach you the joy of computer programming by means of building en educational robot kit.



THOROUGHBRED HORSE RACE ANALYZER™ COMPUTER

Handicap a thoroughbred race in about 20 minutes!

MODEL **1670**

REG. $59.95

OUR PRICE **$44.95**

DESCRIPTION

Computerized handicapping! Use it at home—take it to the track! The Thoroughbred HORSE RACE ANALYZER is programmed for 3 year or older horses running on a fast dirt or firm turf track, at distances of 6 furlongs or longer. It is not designed to handicap harness races (trotters or pacers), quarter horse races, dog races or "Maiden" races.
In a computer study at a leading university, on a sample of 946 races, this computer's top rated horse finished 1st, 2nd or 3rd...58% of the time!.
Uses 9 volt battery (not included).

SERVITRON ROBOTS™

MODEL **BUTLER**

OUR PRICE **$59.95**

MODEL **CHEF** NEW!

OUR PRICE **$59.95**

FEATURES

- Radio remote controlled with foward and reverse/turn functions.
- Stands 40" high x 20" wide x 18" Deep.
- Comes complete with uniform and aluminum serving tray.
- Durable base with traction tread wheels.
- Runs on pile carpets, hard floors, and other surfaces.

DESCRIPTION

These marvelous robots are radio remote controlled and operate at distances over 75 feet. The motor is driven by four 'D'-cell batteries (not included) and the transmitter is powered by one 9-volt battery (not included) for hours of entertainment. The transmitter features forward and reverse/turn functions. Lightweight and easy to assemble, they are ready to go in just minutes. Imagine the fun as you mystify and delight your friends at your next party or special event! Makes a great gift item for the person who has everything.

TTC HEAROID™

THE WORLD'S FIRST VOICE-PROGRAMMABLE ROBOT

MODEL **2010** NEW!

OUR PRICE **$299.95**

DESCRIPTION

Hearoid is here! His brain is a sophisticated voice recognition computer that makes him respond to your spoken words. He understands 10 different commands in any language or accent, and that's all he needs to perform an infinite variety of actions. He's easily programmable and can learn complex programs up to 45 minutes long. With his tape and computer memory, you can keep a library of tasks for him to perform. You can even program him for future tasks by using his on-board programmable alarm clock.

FEATURES Voice Command, Hearoid Can:

- Go forward and back, turn left and right, stop.
- Turn on or off his headlight eyes.
- Play, rewind, stop and fast forward on his cassette deck with built-in microphone.
- Be programmed by voice to perform an unlimited number of complex tasks, each up to 45 minutes in duration.

Hearoid Can:

- Learn to recognize and respond to the voices of two users.
- Carry objects or messages with his grasping hand or removable tray.
- Play standard cassette tapes.

Hearoid Is:

- More than 18" tall. • Rechergeable, built-in power cell.
- Programmable alarm clock. • Runs on most surfaces, from one to another.
- Uses 6 "AA" betteries, not included. •Built-in cessette recorder.
- Has a transmitter that can be used as a wireless microphone, allowing user to talk through him.
- Has a mouth display that lights in sync to his sounds.
- Has a remote override on his Voice Command Module for penic stops.
- Built-in condenser microphone. • On/Off/Timer switch. • Power on light.
- Low battery light. • Detachable serving tray. •Headlight eyes.
- Manual grasping hand. • Self-leveling poseable arms. • Speaker. • Mode switch.
- Flashing strobe mouth. • Adjustable volume control. • Cessette deck release.
- Rechargeable battery charger included. • 90-day limited werrenty.
- Recommended for ell kids from 9 to 90.

Optional Accessories

Model 2155 Ultrasonic Sensor $49.95
Model 2160 Trace Tape Sensor $34.95
Model 2165 Infrared Sensor $35.00
Model 2170 Dust Buster Attachment.. $19.95

ATTACHE CASES with TOOLS

FORDHAM Tool Cases with Hand Held Digital Multimeter.

All Fordham Tool Cases contain primarily Weller Xcelite tools. FTK Tool Cases are the leaders in the electronic industry. Ideal for field engineers, technicians and laboratories. There are more than 100 fine tools of the highest quality. All are in a handsome attache case of your choice.

THESE FINE QUALITY TOOLS ARE INCLUDED IN ALL MODELS BELOW

99-20 thru 99-26—Allen hex Driver Blade Set. 7 pcs.
Alignment Tool Kit.—5 pcs.
9336—Burnishing Tool
70219—Circuit Tester—twin lead type 60-500 volts
1963—Crimping Tool with bolt cutter end stripper
6960—Dip Extractor
TE101—Electrical Tape—UL approved 80' x 3/4"
Flashlight—Heavy duty industrial type, 2 cell
Hammer—(ball pein)—6 oz. head
99-1—Handle for hex, spline end nutdriver blades 4"
99-2—Handle for hex, spline end nutdriver blades 3"
99-4—Handle for hex, spline end nutdriver blades tee type
60—Heat Sink
70148—Hex Key Set—folding type .050—3/16"
K-22—Knife—multipurpose electrician's type
5090—Mirror—dental type
99-6 thru 99-12—Nutdriver Blade Set—3/16" thru 1/2" 7 pce.
PO1—Oiler—precision type
55CG—Pliers—diagonal 5"
72CG—Pliers—instrument type chain nose 5"
52CG—Pliers—long nose with side cutter
64CG—Pliers—miniature cutter 4" with pointed nose
56CG—Pliers—special purpose radio end TV 8"
56CG—Pliers—needle nose 6" slim jew
63CG—Pliers—utility type 10"
70195—Pliers—convertible snap ring, adjust for internal or external snap rings
TS600—Screwdriver—jeweler's kit 6 pcs. .025-1"
VO2—Offset Screwdrivers—-6—-10 screws
X100—Screwdriver—Phillips -0 2" blade
X101—Screwdriver—Phillips -1 3" blade
X102—Screwdriver—Phillips -2 4" blade
SX102—Screwdriver—Phillips Stubby -2 1-5/16" blade
R3322—Screwdriver—regular 3/32", 2" blade
R146—Screwdriver—regular 1/8", 8" blade
R3163—Screwdriver—regular 3/16", 3" blade
R144—Screwdriver—regular 1/4", 4" blade
R5323—Screwdriver—regular 5/32", 3" blade
R5186—Screwdriver—regular 5/16", 6" blade
S141—Screwdriver—regular stubby 1/4", 1-1/4" blade
K34—Screwdriver—screwholding type 3/16" 4" blade
42H—Seizure—6" straight nose—serrated
66CG—Snips—6-1/2" pointed, 1-1/2" blade
99-61 thru 99-86—Spline Driver Blade Set—6 pcs. .048—.096
WP-25—Soldering Iron—Weller
9073—Solder Aid—fork tip end brush
AC303P—Solder Aid—desoldering bulb
AB—Solder Aid—solder wick
DS-1—Solder—small coil .031
8010—Tape Measure—10 ft. long, 1/2" wide
7993—Tweezer—fine point 4-1/8" long
101-S—Wire Stripper/Cutter—with adjustable screw stop and spring
XL70—Wrench Sets—1/4" drive sockets with ratchet, spinner and extensions
44CG—Wrench—4" length adjustable
48CG—Wrench—8" length adjustable
DVM-634—Scope Digital Multimeter

New Scope DVM-634 is supplied with each tool case.

FORDHAM TOOL CASES

MODEL FTK-20SD (Super Deep)

OUR PRICE $489.95

DESCRIPTION
DELUXE ELECTRONIC & INDUSTRIAL TOOL CASE.
This executive attache case contains all the tools described above.The deluxe case features hardwood construction and brass hardware. Spacious compartments are provided in the bottom of the case for tools, spare parts, and service manual. Two Removable Pallets.
Color: Bourbon Brown.
Dimensions: 8-3/4" x 13-1/2" x 7-1/2".
EMPTY CASE AVAILABLE MODEL TC-9000XL $99.95

MODEL FTK-20MLD

OUR PRICE $449.95

DESCRIPTION
DELUXE MOLDED TOOL CASE.
This tool kit contains exactly the same type quality tools described above. However, this tool kit comes with a heavy-duty molded case. For many reasons, this is the finest plastic tool case ever offered. One piece magnesium frame for upper and lower balance. Extra durable plastic walls. **Color:** Black. This kit also comes with two removable tool pallets for your convenience.
Dimensions: 18-3/4" x 12-3/4" x 5-3/4".
EMPTY CASE AVAILABLE MODEL TC-6800 ..... $69.95

MODEL FTK-20PSD

OUR PRICE $489.95

DESCRIPTION
SUPER DEEP TOOL CASE.
This tool kit contains all of the above tools described. This case is made of rough and tough high impact polyethylene shell. Attache style case. **Color:** Grey. This kit also comes with two removable tool pallets for your convenience. Recommended for the technician that needs spaciousness.
Dimensions: 18" x 13" x 8".
EMPTY CASE AVAILABLE MODEL ST-8 ..... $109.95

MODEL FTK-20TW

OUR PRICE $499.95

DESCRIPTION
WING CASE
This tool kit contains all of the above tool described. Its case is made of heavy duty, high impact polyethylene shell with 2 pallets and wings for extra storage. **Color:** Gray.
Dimensions: 19-1/2" x 13-1/4" x 8".
EMPTY CASE AVAILABLE MODEL ST-12 ..... $139.95

TOOLS LISTED AT TOP OF PAGE ARE CONTAINED IN EACH CASE

FTK-20SD FTK-20MLD FTK-20PSD FTK-20TW

VACO SUPER CASE

MODEL 70260

OUR PRICE $349.95

DESCRIPTION

Popular assortment of 48 precision engineered tools. Includes screwdrivers, nutdrivers, electrical tools, pliers and specialty tools on two custom-fitted pallets. Ample storage space in bottom for meters, power tools and other equipment. Large pocket in lip holds catalogs, manuals, guides. Black simulated leather covers sturdy case. Measures: 19 x 14-1/2 x 6" Shipping Weight: 20 lbs.

THESE FINE QUALITY TOOLS ARE INCLUDED

Hollow Shaft Nut Drivers
S6—3/16" socket, black handle
S8—1/4" socket, red handle
S10—5/16" socket, amber handle
S11—11/16" socket, green handle
S12—3/8" socket, blue handle
S14—7/16" socket, brown handle
S16—1/2" socket, red handle

Electricel Tools & Testers
WS-150 Adjustable wire stripper & cutter
1963—Crimping tool with bolt slicer
70008—Continuity tester with wire lead and clip.
70219—100-500 volt twin lead tester.
70129—100-500 volt circuit tester.
AN2—RF tester.

Problem Solving Tools
70128—8 ft. measuring tape.
HK-17—Folding hex key wrench set.
P120—Phillips tips offset screwdriver.
VO2—Slotted tips offset screwdriver.
TT31—3-in-1 tapping tool.
ST49—Spring tool.
220—External snap ring plier.
700035—Magnetic screwdriver.

Pliers end Wrenches
88202—5" diagonal pliers.
88203—6" diagonal pliers.
88102—6" long needle nose plier.
88105—6" long nose pliers.
88602—6-1/2" Vacugruv adjustable pliers.
70301—4" electronic chain nose pliers.
70303—4" electronic diagonal pliers.
7706—6" adjustable wrench.
1214—3/8 x 7/16" ratchet box wrench.

Screwdrivers
A130—2-1/8" slotted driver.
A132—1/4" slotted stubby driver.
BD144—1/4" Bull Driver
P1—#1 Phillips driver.
P2—#2 Phillips driver.
P6—#1 Phillips stubby driver.
74164—1/4" slotted cushion grip driver.
71002—#2 Phillips cushion grip driver.
R10—#1 square recess driver.
R20—#2 square recess driver.
CH540—5/32" clutch head driver.
F710—Frearson driver.
DU2—3/16" slotted x #1 Phillips reversible blade driver
DUH4—1/4" slotted x #2 Phillips reversible blade driver
K23—1/8" slotted tip screw holding driver
K34—3/16" slotted tipscrew holding driver
K46—1/4" slotted tipscrew holding driver
K15—Phillips tip screw holding driver

VACO SUPER ZIP

MODEL 70390

OUR PRICE $175.00

DESCRIPTION

This compact assortment holds 36 popular professional tools. Includes interchangeable 90 Series handle and screwdriver, nutdriver and hex-driver blades plus pliers, electrical tools and offset and regular screwdrivers. Zippered vinyl case is tough and lightweight. Measures: 12-1/2 x 10-1/4 x 1-3/8". Shipping Weight: 8 lbs.

THESE FINE QUALITY TOOLS ARE INCLUDED

Hendles and Extension
90-1—Full size handle.
90-x10—10" blade extension.

Screwdriver Bledes
90-811—3/16" slotted.
90-250—1/4" slotted.
90-821—#1 Phillips.
90-822—#2 Phillips.

Nutdriver Bledes
90-6—3/16" socket.
90-8—1/4" socket.
90-10—5/16" socket.
90-11—11/32" socket.
90-12—3/8" socket.
90-14—7/16" socket.
90-16—1/2" socket.

Offset Screwdrivers
VO1—Slotted.
P120—Phillips.

Hex Bledes
90-20—.050" hex.
90-21—1/16" hex.
90-22—5/64" hex.
90-23—3/32" hex.
90-764—7/64" hex.
90-24—1/8" hex.
90-964—9/64" hex.
90-25—5/32" hex.
90-26—3/16" hex.

Screw Holding Drivers
K23—1/8 x 3" slotted tip.
K15—Phillips tip.

Screwdriver
PO1—#0 Phillips.

Electricel Tools & Testers
WS—150 Adjustable wire stripper & cutter
1963—Crimping tool with bolt slicer

Pliers end Wrenches
70277—Electronic 4" diagonal plier.
70280—Electronic 5" long reach plier.
88105—6" long nose plier.
88601—5" Vacgruv adjustable plier.
88602—6-1/2" Vacgruv adjustable pliers.
70195—External snap ring plier.
7704—4" adjustable wrench.

XCELITE ATTACHE TOOL CASES

MODEL TCM-100/ST

REG. $499.95

OUR PRICE $379.95

DESCRIPTION

Largest, most elaborate of the three cases. Contains 53 individual tools, 31 Series 99® interchangeable screwdriver/nutdriver blades and handles, and 2 specialized screwdriver/nutdriver sets and kits, as listed. Case (19-1/2 x 13-1/2 x 6-3/4") covered with attractive, tough, heavy duty ABS material. Removeable three-panel, hinged pallet and tray outfitted with pocket tool holders. Solid brass locks, latches, and hardware. Padded handle. Partitioned bottom compartment for other tools.

CONTENTS

Interchengeable Screwdrivers, Nutdrivers, Other Tools end Hendles
99-1, 1-R, & 4-R—Handles (regular, straight and Tee ratchets).
99X5 & X10—Extensions.
99-61 thru 69—Bristol 6-flute multiple spline blades (9).
99-20 thru 26 & 99-765—Allen hex-socket type blades (9).
99-125, 250, 312 & 811—Slotted screw blades.
99-820, 821 & 822—Phillips screw blades.
99-38—Reamer.

Pliers, Wrenches, Cutters
42H—Straight nose Seizer®.
46CG—Adjustable wrench (6").
50CG—Midget slip joint plier (5").
51CG—Long nose plier (6-1/2").
53CG—Utility plier (7").
54CG & 66CG—Diagonal pliers (4" & 6").
57CG—Needle nose plier (5-1/2").
59CG—Chain nose plier (8").
86CG—Electronic snips.
103-S—Wire stripper/cutter.
K-22—Electrician's knife.

Sets end Kits
M-60—Mini Drivers.
XL-75—Offset ratchet screwdrivers.
600—Combination dual nutdriver handle and SB1 dual reversible screwdriver blade.

Screwdrivers
R-144—Slotted screwdriver.
R-146—Slotted screwdriver.
R-181—Slotted screwdriver.
R-184—Slotted screwdriver.
R-3164—Slotted screwdriver.
R-3166—Insulated Slotted screwdriver.
R-3323—Slotted screwdriver.
R-5325—Slotted screwdriver.
R-388—Slotted screwdriver.
R-3161—Slotted screwdriver.
R-5161—Slotted screwdriver.
R-5166—Slotted screwdriver.
SX-101—Phillips screws.
XST-100—Phillips screws.
XST-101—Phillips screws.
XST-102—Phillips screws.
P-18 & P-19—(.028 & .035) compact convertible hex socket screws.

Nutdrivers
HS-6, 8, 10, 11, 12, 14, 16, 18—Hollow shaft 8M and 10M magnetic.
P3 thru P12—Compact convertible drivers (10) and TA-2 torque amplifier handle.

FORDHAM TOOL KIT

MODEL FTK 23

REG. $499.95

OUR PRICE $349.95

EXTRA SPECIAL!

DESCRIPTION

Fordham Tool Kit is mede up of Veco tools. FTK Tool Kits are the leaders in the electronic industry. Ideel for field engineers, technicians end laboretories. These ere more than 100 fine tools of the highest quellty. All ere in a hendsome grey attache case. Dimensions: 18" x 13" x 7"

THESE FINE QUALITY TOOLS ARE INCLUDED

90-1—Standard Handle
90-1R—Reversible Ratcheting Standard Interchangeable Handle
90-4R—Reversible Ratcheting Interchangeable T Handle
90-X5—5" Extension Blade
90-X10—10" Extension Blade
90-61 thru 90-89—.048", .060", .069", .070", .076", .096", .111", .145", .183" 6 Flute Blade
90-20 thru 90-984—.050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/64", 9/64" Hex Blade
90-125—1/8" Slotted Blade
90-250—1/4" Regular Blade Driver
90-312—5/16" Ft. Screw Driver Blade
90-811—3/16" Regular Blade Driver
90-820—No. 0 Phillips Blade
90-821—No. 1 Phillips Blade
90-822—No. 2 Phillips Blade
70296—Straight Forceps
7706—6" Adjustable Wrench
88801—VACgruv Pliers 5 Adjustable
88102—Long Needle Nose Plier
88802—Vacgruv Plier 6
88201—Diagonal Cutter 4-1/2
88203—Diagonal Cutter 6
88105—Long Nose Plier
88106—Long Reach Plier
P857—Metal Shear
WS150—Wire Stripper & Cutter
70394—Knife 2 Blade Boxed
M60—Mini Drivers
VL-75—Ratchet Screw Driver Set
70175—Handles only for DU2
70184—Blade only for DU5
A416-4—1/4" x 4" Round Keystone style Blade
A418-6—1/4" x 6" Round Keystone style Blade
A130-2—1/8" x 2" Pocket Clip Round Blade
A218-4—9/64" x 4" Cabinet Style Blede
BD384—3/16" x 4" Round Bull Driver
VR361—3/16" x 6" Insulated Screw Driver Blade
A116-3—3/32" x 3" Pocket Clip
7 pcs. Hollow Shaft Nut Drivers
C68—Heavy Duty Square Blade 3/8" x 8"
A135—Stubby Style Screw Drivers
1-1/4" x 2-1/8"
C56—Square Blade Screw Driver Med. Duty 5/16" x 6"
P6—Stubby Phillips Blade Screw Driver 1-1/8" x 1-3/4"
P01—Regular Phillips Blade 5/8" x 2-3/4" Screw Driver
P10—Super Hard Phillips Screw Driver 1-1/8" x 4-3/8"
P20—1-1/8" x 4-3/8" Super Hard Phillips Screw Driver
P18—Extra Long Phillips Screw Driver 7/8" x 1-3/4"
S18—Extra Large Hex Blade 4" Shaft Length 1-1/16" x 4"
S8M—Magnetic Nut Drivers 1" x 3-5/8" Red
S10M—Magnetic Nut Drivers 1" x 3-5/8" Amber
TS3 thru TS12—3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8 ' Nut Driver
70112—Torque Commander Handle
Cese

SOLDERING EQUIPMENT

WELLER WTCPR CONTROLLED OUTPUT SOLDERING STATION

MODEL **WTCPR**

OUR PRICE **$79.95**

DESCRIPTION
The Weller WTCPR is a transformer powered soldering station complete with a low voltage, temperature controlled soldering pencil. The unique Weller 'Closed Loop' method of controlling maximum tip temperature is employed, protecting temperature sensitive components while the grounded tip protects voltage and current sensitive components.

Model	Description	Our Price
TC-201	Soldering Pencil with PTA 7 tip.	$44.95
TC-202	Power unit only includes sponge, iron holder and tip tray.	61.95
TC-204	Iron holder with funnel.	2.95
TC-205	Sponge.	1.50
TC-206	Tip tray.	1.50

WELLER SOLDERING STATION

MODEL **EC-1000**

OUR PRICE **$129.95**

The Weller EC-1000 Soldering Station is identical to the EC-2000 in all specifications except the LED Digital temperature readout. The EC-1000 is dial controlled. Meets government specification requirements for contract work.

WELLER SOLDERING STATION

MODEL **EC-2000**

OUR PRICE **$169.95**

The Weller EC-2000 has continuously variable tip temperature from 350 to 850°F. A positive temperature coefficient sensor inside the tip provides temperature feedback to maintain tip temperature at a set point. Zero crossing control of heater current to eliminate RFI/EMI and accurate time proportioning to reduce tip temperature hystersis are features of the control circuit. Has plug-in soldering irons with positive plug lock, grounded tip, and room temperature compensation that are interchangeable with all EC power units without recalibration of the temperature settings. temperature adjusting control can be locked at any desired temperature. Power unit, provided with extra large sponge, Iron holder tip holding tray, solder drip shield, over current protection (circuit breaker) and lighted on/off switch. NIne different tip styles are evailable. The EC-2000 has three large digit LED display for accurate setting of desired tip temperature, and instantaneous tip temperature readings are available by setting a selector switch to 'read' position.

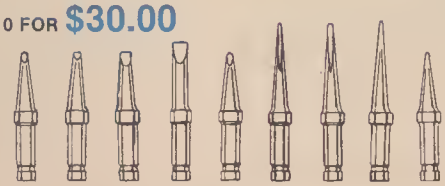
WELLER POPULAR TIPS

MODELS **EC-1000, EC-2000**

OUR PRICE **$3.50** each 10 FOR **$30.00**

DESCRIPTION

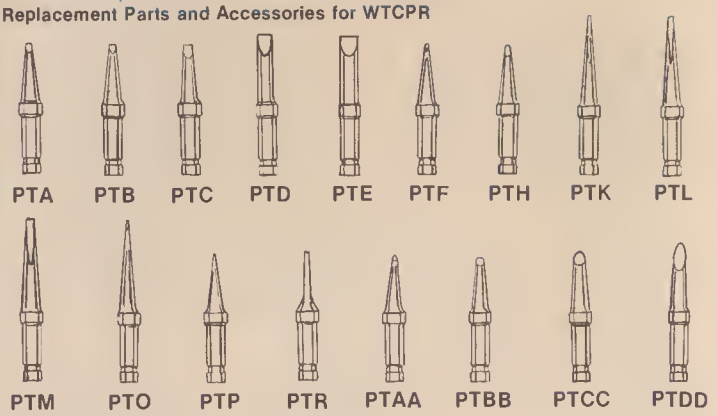
ETA	Tip 1/16" screwdriver
ETB	Tip 3/32" screwdriver
ETC	Tip 1/8" screwdriver
ETD	Tip 3/16" screwdriver
ETH	Tip 1/32" screwdriver
ETK	Tip 3/64" long screwdriver
ETL	Tip 5/64" long screwdriver
ETO	Tip 1/32" long conical
ETP	Tip 1/32" conical



WELLER 700° TIPS FOR WTCPR

OUR PRICE **$3.50** each 10 FOR **$30.00**

Replacement Parts and Accessories for WTCPR



WELLER PORTABLE DESOLDERING STATIONS

MODEL **DS-600**

OUR PRICE **$449.95**

DESCRIPTION
Here's the professional desoldering station that has everything. Except a fixed place. The low maintenance, self contained vacuum/air pump in this small smart unit now lets the station travel to the job. And there isn't any place that Weller expertise cannot reach.
The DS-600 Portable Power Desoldering Station is a self contained system which requires only a 120 volt 60 Hz AC power source for operation. This station has been designed for use in industrial applications where portability or a lack of a suitable vacuum source requires a self contained unit. The station is supplied with a carrying handle, power storage cord, and a built in desoldering iron storage compartment to enhance portability. Other features include lighted on/off switch, quick connect/disconnect locking plug and receptacle, built in iron holder, and circuit breaker.

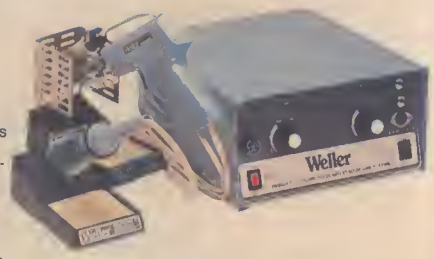
FREE
WTCPR WITH PURCHASE OF DS-600

WELLER ELECTRONICALLY CONTROLLED SOLDERING/ DESOLDERING STATION

MODEL **DS-2000**

REG. $1175.00

OUR PRICE **$995.00**



Introducing a unit which incorporates the very latest in soldering and desoldering technonogy. The DS-2000 is a fully electronic soldering/desoldering station that utilizes high precision electronic systems to control tip temperatures for both soldering and desoldering. Three digit LED readouts, for both soldering and desoldering provide digital temperature setting and digital readout. Precision platinum sensors are used in both the desoldering and soldering tool. Tools can be unplugged and replaced without affecting the calibrated accuracy of the station. Temperature control and dynamic response to load are fast and noise free. Zero crossing or optically isolated electronic circuitry is used throughout the unit for controlling all pumps, solenoid valves, and other functions. This is to ensure that no voltage transients are generated to endanger sensitive, high reliability electronic circuitry. A unique electronic system is used to detect porper air flow in the desoldering intake line. When flow is not within acceptable limits a written warning is illuminated on the panel to give the operator indication of tiplet restriction or low vacuum. This feature eliminates the aggrevation of trying, unknowingly, to desoler with a partially restricted tiplet.
The DS-2000 is a full feature soldering/desoldering station that allows use with internal vacuum pump or external shop air supply to create vacuum.
When the internal vacuum pump is selected, an electronically controlled circuit controls the pump motor and keeps it actuated for a short time delay after each desoldering operation to hold full vacuum available for the next desoldering operation.

WELLER CLEAN-O-POINT

Improved soldering tip cleaning by Weller

MODEL **WCP-1** OUR PRICE **$45.00**

The new Weller WCP-1 Clean-O-Point for fast more efficient solder tip cleaning.

FEATURES
- Rotating dampened sponge rollers clean the solder tip without turning or twisting.
- Clean-O-Point takes only seconds to clean the soldering tip.
- Removed solder is collected and can be recycled.

DIGITAL MULTIMETERS/FUNCTION GENERATOR

SCOPE HAND-HELD DIGITAL MULTIMETERS

MODEL DVM-634

OUR PRICE $48.75

7 Function, 32 Ranges—Including: Transistor Measurement

MODEL DVM-636

OUR PRICE $62.75

8 Function, 37 Ranges—Including: Capacitance Measurement

MODEL DVM-638

OUR PRICE $79.95

11 Function, 38 Ranges—Including: Logic Level Detector, Audible Visual Continuity, Capacitance Measurement, Conductance Measurement

DESCRIPTION

The new Scope line of digital multimeters are completely portable for use by Technicians, Servicemen, Students and Hobbyists.

High accuracy and rugged reliability make them the first choice of servicemen who require a multi-function meter designed for easy handling and is cost effective.

FEATURES

- Overload Protection. • Auto-decimal LCD readout. • Polarity Indication.
- 300 hour battery life with 9V transistor battery. • Low battery indication.

OPTIONAL

CA-92 Deluxe Padded Case for DVM meters. . .$8.95

	MODELS				
	DVM-634	DVM-636	DVM-638	Input Impedance	Overload Protection
DC VOLTAGE		ACCURACY			
Range: 200mV, 2V, 20V, 200V, 1000V **Resolution:** 100uV, 1mV, 10mV, 100mV, 1V	0.5% + 1	0.5% + 1	0.5% + 1	10M ohm on all ranges	1000V dc/peak ac on all ranges
AC VOLTAGE		ACCURACY (50Hz—500Hz)			
Range: 200mV, 2V, 20V, 200V	1% + 4	1% + 4	1% + 4	10M ohm on all ranges capacitance less than 100pF	1000V Except DVM-638 750V rms on all ranges except 200mV ac range
750V	1.5% + 4	1.5% + 4	2% + 4		
Resolution: 100uV, 1mV, 10mV, 100mV, 1V					
DC CURRENT (200uA DVM-636 only)		ACCURACY		Burden Voltage	Up to 250V fused 10A range not fused
Range: 2mA, 20mA, 200mA	0.8% + 1	0.8% + 1	0.8% + 1	0.3V max.	
2000mA, 10A	1.5% + 4	1.5% + 1	1.5% + 1	0.7V max.	
Resolution: 1uA, 10uA, 100uA 1mA, 10mA					
AC CURRENT (200uA-DVM-636 only)		ACCURACY (50—500Hz)			
Range: 2mA, 20mA, 200mA	1% + 4	1% + 4	1% + 4	0.3V max	Up to 250V fused 10A range not fused
2000mA, 10A	1.5% + 4	1.5% + 4	1.5% + 4	0.7V max.	
Resolution: 1uA, 10uA, 100uA 1mA, 10mA					
RESISTANCE		ACCURACY		OPEN VOLTAGE	Overload Protection
	HI	HI	HI		
Range: 200 ohms	0.8% + 3	0.8% + 3	0.8% + 3	Less than 3.5V	
2K ohm, 20K ohm, 200K ohm, 2000K ohm	0.5% + 1	0.5% + 1	0.5% + 1	Hiv less than 3.5V	250V dc/rms on all ranges
20M	1.5% + 1	1.5% + 1	1.5% + 1	Lov less than 0.25V	
	LOW	LOW	LOW		
Range: 200 ohm	N/A	N/A	N/A		
2K ohm, 20K ohm, 200K ohm, 2000K ohm	0.8% + 2	0.8% + 2	0.8% + 2		
Resolution: Range 200 ohm		100M ohm			
2K ohm, 20 K ohm, 200K ohm, 2000K ohm		1 ohm, 10 ohm, 100 ohm, 1k ohm			
20m		10K ohm			
CAPACITANCE		ACCURACY		Test Signal	Max. Input
Range: 2nF, 20nF, 200nF, 2000nF, 20uF Resolution: 1pF, 10pF, 100pF, 1nF, 10nF	NA	3% + 10	1% + 4	512Hz 32mV rms	3V dc/peak ac on all ranges
CONDUCTANCE		ACCURACY		Test Signal	Overload Protection
Range: 200ns Resolution: 0.1nS	NA	NA	3% + 10	5Mohm-10,000Mohm	250V dc/rms

BP DIGITAL CAPACITANCE METER

MODEL DCM-602 **OUR PRICE $69.95**

FEATURES

•Digital display easy and correct readout. •High accuracy: 100 PPM 0.5%. •LSI-circuit provides high reliability and durability. •LCD display provides low power consumption. •LCD display allows clear read-out even in bright light. •Compact, light-weight, and easy to operate. •Crystal time base. •Use the push buttons for easy one hand operation. •Broad test range to measure high and low capacitance values. •Protected against damage from charged capacitors. •Fast sampling time. •Portable.

GENERAL SPECIFICATIONS

Display: 13mm (0.5") LCD (liquid crystal display) Max. indication 1999. **Range:** 8 ranges with full scale values from 200pF to 2000uF. **Overload Indication:** indication of "1". **Calibration adjustments:** One internal adjustment for accuracy. One front panel adjustment for zero. **Zero adjustment:** External knob adjustment for zero value of the display. This is limited to ±20pF. **Out-of-range Indication:** Indication of "1". **Sampling times:** 0.5 second. **Operating temperature:** 0°C to 40°C (32°F to 102°F). **Operating humidity:** Less than 80% RH. **Power supply:** 9V battery. **Battery life:** Approximately 200 hours on alkaline or 100 hours on carbon zinc battery with normal usage. (Typical consumption current 3-4mA on 200pF-200uF range). **Dimensions:** 18 x 8.2 x 3.8cm (7.1 x 3.3 x 1.5"). **Weight:** 280g (0.62 lbs)/(Including battery). **Standard accessories:** 1 pair of test alligator clips (red and black), Spare fuse (0.2A), instruction manual.

ELECTRICAL SPECIFICATIONS

Normal Range	Max. In-range Display	Resolution		Test Frequency	Normal Range	Max. In-range Display	Resolution		Test Frequency
200 pF	199.9 pF	0.1	pF	800Hz	2 uF	1.999 uF	1000	pF	800Hz
2 nF	1.999 nF	1	pF	800Hz	20 uF	19.99 uF	0.01	uF	80Hz
20 nF	19.99 nF	10	pF	800Hz	200 uF	199.9 uF	0.1	uF	8Hz
200 nF	199.9 nF	100	pF	800Hz	2000 uF	1999 uF	1	uF	8Hz

pF = picofarad (10^{-12}) nF = nanofarad (10^{-9}) uF = microfarad (10^{-6})

Accuracy (25°C ± 5°C)	0.5% of full scale ±1 LSD (least significant digit) on 200 pF to 200 uF ranges. 1% of full scale ±1 LSD on 2000 uF range.
Excitation Voltage	2.8(DCM-601) 3.2(DCM-602) volts peak, maximum. Positive input terminal's voltage is always higher than Negative terminal.
Zero Adjustment	It is only limited ±20 pF.
Protection	The meter is protected against damage from charged capacitors (more than DC 50 volts) by the fuse (0.2A).

SWEEP FUNCTION GENERATOR

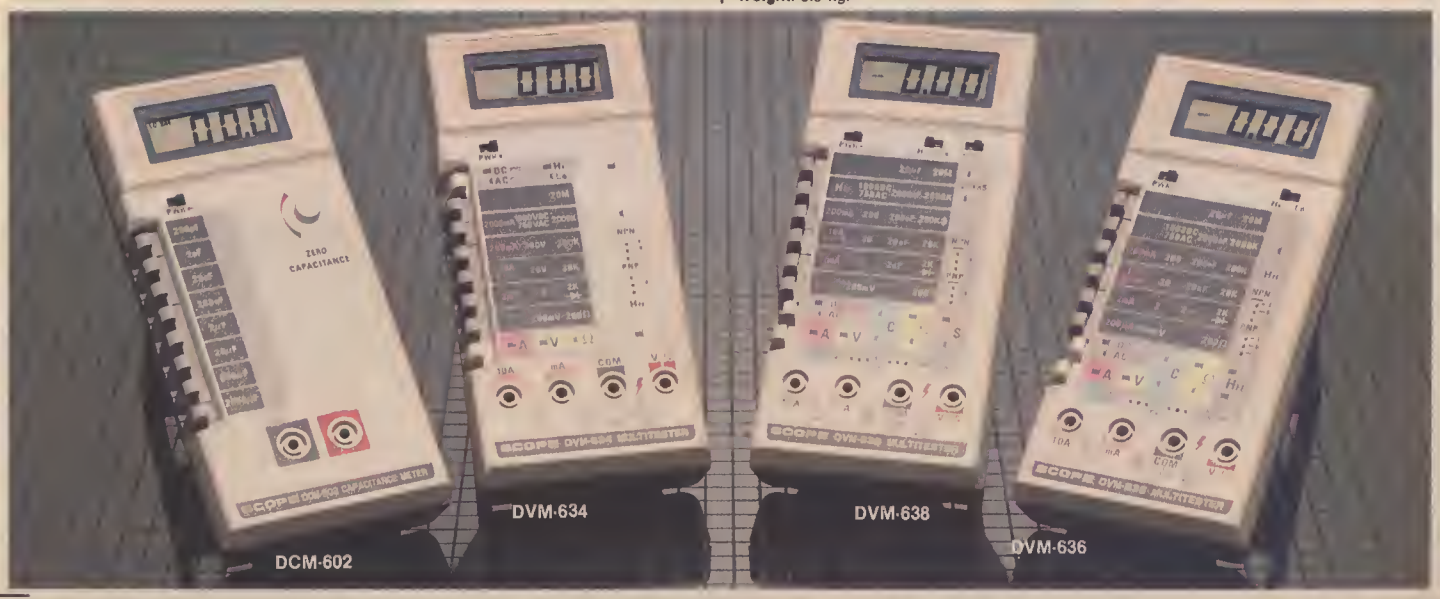
MODEL FG-801

REG. $289.95

OUR PRICE $199.95

SPECIFICATIONS

MAIN GENERATOR Frequency Range: 0.2Hz to 2MHz (7 Ranges). **Frequency Accuracy:** ±5% of length scale. **V.C.F. (Voltage Controlled Frequency):** approx, 0 to 10 Voltage input for 1000: 1 (3 decades) frequency ratio input impedance, Approx, 10 kohm. **MAIN OUTPUT Wave Forms:** Sine, triangle, square, pulse TTL, CMOS, and ramp unsymmetrical sine wave. **Amplitude:** > 20V p-p open circuit. > 10V p-p into 50 ohms. **Attenuation:** -20dB & continuously Variable. **DC Offset:** Variable +10 to -10V open circuit, +5 to -5V into 50 ohm. **Sine Wave:** Distortion: 0.2Hz to 200kHz ≤ 1%. **Response:** 0.2Hz – -200KHz ≤ 0.1dB, 200KHz -2MHz ≤ 0.5dB. **Square Wave:** Rise Time < 100 ns. **PULSE OUTPUT Rise Time:** < 25 nS will Sink 20 TTL loads. **Level:** Amplitude Fixed > +3V open circuit. **CMOS Level:** 5V — 15V adjustable TTL, CMOS Switch Selector. **INT, EXT:** Switch Selector. **Accuracy:** 1000:1 Ration MAX. and adjustable. **Time Base:** 0.5S - 30S adjustable. LIN, LOG operation. HI/LO range can set. **Power Source:** AC 115/230V ± 10% 50/80 Hz. **Accessories:** Test lead GTL-101x2, Instruction Manual x 1. **Dimension:** 200(W) x 160(H) x 280(D) mm. **Weight:** 3.0 kg.



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OSCILLOSCOPES

HITACHI 35 MHZ DUAL TRACE OSCILLOSCOPE

MODEL V-355 (Probes Included)

REG. $899.95 OUR PRICE $599.95

SPECIAL!

FREE
LP-189 Logic Probe
with purchase of V-355

Hitachi's new scope provides an unbeatable combination of lightweight scope and high performance that's destined to set new standards in cost plus performance. Its thin, light, compact design features a large 6 inch rectangular, internal graticule CRT, with percent calibrations, autofocus, scale illumination and photographic bezel.

Specifications
Effective Area 8 x 10 div (1 div = 1 cm). **Acceleration Potential** 12kV. **Focus Adjustment automatic. External Intensity Modulation** · **Effective Bandwidth** DC to 2 MHz. **Imput Impedance** 47 ohm (typ). **Max Imput Voltage** 30V (DC + AC peak). **Voltage** 5V p-p or more. **VERTICAL DEFLECTION Sensitivity** 5 **mV/div to 5V/div** ± 3%, 10 calibrated steps, 1mV/div to 1 V/div ±5% (when using x5 amplifier) Uncalibrated continous control between steps 1: less than 2.5 (provided with lock positioning). **Uncal Lamp** Front panel lamp indicates the uncalibrated condition. **Frequency bandwidth** DC to 35 MHz, -3 dB (at 8 div) DC to 7 MHz, -3 dB (at 8 div) (when using x5 amplifier). **Risetime** 8.8 ns (50 ns for x5 magnification). **Signal delay line** Permits viewing leading edge of displayed waveform. **Maximum input voltega** 500Vp-p or 300Vp-p (DC + AC peak at 1 kHz) **Imput Coupling** AC, GND, DC (lever switch) **Input Impedence** Direct 1M ohm approximately 30 pF **Operating modes** CH1, CH2, ALT, CHOP, ADD. **Polarity Switching** CH2 only. **X-Y Operation** CH1: X-axis, CH2: Y-axis. **Sensitivity** 5 mV/div to 5 V/div (when using x5 magnifer: 1 mV/div to 1V/div). **Phase Difference** DC to 50 kHz within 3°. **X axis bandwidth** DC to 500 kHz, -3 dB. **Dynamic range** 8 div or more **CH1 output** Provided to enable frequency measurement using an external frequency counter. **Output voltage** 20 mV/div or more. **Frequency bandwidth** 50 Hz to 5 MHz, 1 3 dB. **Output impedence** Approx 50 ohm. **HORIZONTAL DEFLECTION Trigger modes** AUTO, NORM, TV-V, TV-H. **Trigger source** INT (CH1, CH2, V-MODE), LINE, EXT. **Trigger coupling** AC. **TV Sync Internal** 1 div or more (vertical sync signal) **External** 1 VP-p or more (vertical sync signal). **Trigger Sensitivity Frequency** 20 Hz to 5 MHz, **Internal** 0.5 div, **External** 200 mV, **Trigger Sensitivity Frequency** 5 to 35 MHz, **Internal** 1.5, **External** 800 mV. **AUTO low bandwidth** 25 Hz **Trigger slope** ±. **External trigger input** · **Input impedance** Approx, 1M, Approx. 30pF. **Maximum input voltage** 300 V (DC + AC peak at 1 kHz). **Sweep time** 0.2 us/div to 0.2s/div ± 3%, 19 calibrated steps, Uncalibrated continous control between steps 1:less than 2.5 (provided with lock-positioning). **Uncal lamp** Front panel lamp indicates the uncalibrated condition. **Swaap time magnifier** 10 times (±5%). **Maximum sweep time** 20 ns/div. **CALIBRATOR Waveform** Approx. 1 kHz squarewave (duty cycle: 48:52 or more). **Voltage** 0.5 V±3%. **POWER REQUIREMENTS** AC 100/120/220/240± 10% connector selectable, 50/60 Hz Approx. 45W. **DIMENSIONS** 310(W) x 130(H) x 370(D) mm, Approx. 6.5 kg. **TEMPERATURE Limits of operation** 0 to +40° **Rated range of usa** +10 to +35°C. **MTBF** 20,000 hours (target value). **Accaasories AT-10AK 1.5 probee (10:1 1:1). . .2, Power Cable. . .1, Instruction Manual. Probea Included.**

HITACHI PORTABLE OSCILLOSCOPES DC to 20 MHz, 1 mV/div, DUAL TRACE

MODEL V-212 REG. $615.00 OUR PRICE $449.95

SPECIAL!

DESCRIPTION
Hitachi's new series of scopes provides an unbeatable combination of high performance and light weight, and are destined to set a new standard in cost plus performance.

FEATURES
- Thin, light and compact design. • Large 6-inch rectangular, internal graticule CRT. • Probes Included.
- High accuracy—±3%. • High sensitivity—1 mV/div. • Stable, low-drift design.
- 8 divisions of displayed dynamic range and accurate, distortion-free waveform measurements.
- All models have a special TV sync separation circuit enables quick measurements of video signals.
- Built-in signal delay line for observation of the leading edge of fast-risetime signals.
- A convenient X-Y operation mode allows phase difference measurements between two waveforms.

SPECIFICATIONS
VERTICAL DEFLECTION—Sensitivity: 5 mV/div to 5 V/div ±3%, 10 calibrated steps. 1 mV/div to 1 V/div ±5% (when using X5 amplifier). Uncalibrated continuous control between steps 1: less than 2.5 (provided with lock-positioning). **Frequency bandwidth:** DC to 20 mHz, —3 dB (at 8 div) DC to 7 mHz, —3 dB (at 8 div) (when using X5 amplifier). **Risetime:** 17.5 ns (50 ns for X5 magnification). **Maximum input voltage:** 500 Vp-p or 300 Vp-p (DC+AC peak at 1 kHz). **Input coupling:** AC, GND, DC (lever switch). **Input impedance:** Direct: 1 Mohm, approx. 30 pF. **Operating modes:** CH1, CH2, ALT, CHOP, ADD. **Polarity switching:** CH2 only. **X-Y operation:** CH1: X-axis, CH2: Y-axis. **Sensitivity:** 5 mV/div to 5 V/div (when using X5 magnifier: 1 mV/div to 1 V/div). **Phase difference:** DC to 50 kHz within 3°. **X-axis bandwidth:** DC to 500 kHz, —3 dB. **Dynamic range:** 8 div or more. **CH1 output:** Provided to enable frequency measurement using an external frequency counter. **Output voltage:** 20 mV/div or more. **Frequency bandwidth:** 50 Hz to 5 mHz, —3 dB. **Output impedance:** Approx. 50 ohm. **HORIZONTAL DEFLECTION—Trigger modes:** AUTO, NORM, TV-V TV-H. **Trigger source:** INT (CH1, CH2, V-MODE), LINE, EXT. **Trigger coupling:** AC. **TV sync:** TV sync seperation circuit. **Internal:** 1 div or more (vertical sync signal). **External:** 1 Vp-p or more (vertical sync signal). **Trigger sensitivity:** Frequency: 20 Hz to 2 mHz. Internal: 0.5 div. External: 200 mV. Frequency: 2 to 20 mHz. Internal: 1.5 div. External: 800 mV. **AUTO low bandwidth:** 25 Hz. **Trigger slope:** ±. **External trigger input:** Input impedance: Approx. 1M, Approx. 30pF. Maximum input voltage: 300 V (DC+AC peak at 1 kHz). **Sweep time:** 0.2 us/div to 0.2s/div ±3%, 19 calibrated steps. Uncalibrated continuous control between steps 1:less than 2.5 (provided with lock-positioning). **Sweep time magnifier:** 10 times (±5%). **Maximum sweep time:** 100 ns/div. (20 ns/div and 50 ns/div are uncalibrated) **CALIBRATOR—Waveform:** Approx. 1 kHz squarewave (duty cycle: 48:52 or more). **Voltage:** 0.5 V ±3%. **POWER REQUIREMENTS:** AC 100/120/220/240 V ±10%, connector selectable, 50/60 Hz Approx. 45W. **DIMENSIONS (WxHxD):** 310 x 130 x 370mm. Approx. 6.0 kg.

HITACHI 60 MHz, DUAL TRACE DELAYED SWEEP SCOPE

MODEL V-650F REG. $1195.00 OUR PRICE $949.95

SPECIAL!

FEATURES
- 6" rectangular CRT with internal graticule. • 1 mV/div high sensitivity design.
- Triple trace—convenient for checking synchronous signals and relationship and timing between observed waveforms.
- Equipped with delayed sweep function capable of magnification of any part of wave under observation by a factor of hundreds to thousands.
- Employs TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuit eliminates loss of focusing. • Single sweep function.
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Delayed sweep function with one touch control 10X magnification.
- Signal output: CH1 output terminal to frequency counter, etc. • Probes Included.

SPECIFICATIONS
CRT = 6" square with 10kV acceleration potential • **Vertical Deflection** = Sensitivity: 5mV/div to 5V/div ±3, Max. Sensitivity: 1mV/div ±5% x 5 Magnifier extends, Bandwidth: DC to 60 MHz, DC to 60MHz, DC to 10MHz at x 5 Magnifier extends, Modes: CH1•CH2•ALT•CHOP•ADD (DIFF) •**Horizontal Deflection** = A Time Base: 50ns/div to 0.5s/div ±3%, B Time Base: 50ns/div to 50ms/div ±3%, Max. Sweep Rate: 5ns/div at x 10 Magnifier extends, Display Modes: A,A inten, B • **X-Y Operation (CH1: X, CH2: Y)** = Phase Error:3° from DC to 50kHz • **Dimensions** = 310(W) x 180(H) x 410(D) mm/12.2 x 7.1 x 16.1 in. • **Weight** = 9.3kg/20.5 lb.

HITACHI 100 MHz, QUAD TRACE DELAYED SWEEP SCOPE

MODEL V-1050F REG. $1980.00 OUR PRICE $1249.95

SPECIAL!

FEATURES
- Use of low halation dome mesh and large 6" rectangular CRT with internal graticule enables easy measurement even for quad trace waveforms. Screen is illuminated with newly developed phosphor for bright measurement at 20 kV acceleration potential.
- 500 uV/div high sensitivity design. • Quad-trace. • Equipped with delayed sweep function.
- Alternate sweep function permits enlarged waveform (delayed sweep) and entire original waveform (Main sweep) to be simultaneously displayed on the CRT screen.
- Employs TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuits eliminates loss of focusing. • Single sweep function.
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Delayed sweep function with one touch control 10X magnification. • Probes Included.

SPECIFICATIONS
CRT = 6" square with 20kV acceleration potential • **Vertical Deflection** = Sensitivity; 5mV/div to 5V/div ±2%, Max. Sensitivity: 0.5mV/div ±4% at x 10 Magnifier extends, Bandwidth: DC to 100MHz (-3dB), DC to 5MHz (-3dB) at x 10 Magnifier extends, Modes: CH1•CH2•ALT•CHOP•ADD (DIFF) • **Horizontal Deflection** = A Time Base: 20ns/div to 0.5s/div ±2%, B Time Base: 20ns/div to 50ms/div ±2%, Max Sweep Rate to 2ns/div at x 10 Magnifier extends, Display Modes: A, A inten, ALT, B •**X-Y Operation (CH1: X, CH2: Y)** = Phase Error: 3° from DC to 2MHz •**Dimension** = 310 (W) x 180(H) x 410 (D)mm • **Weight** = 9.3kg/20.5 lb.

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l vacuum and searchlight. This compact vacuum has
pills and crumbs on kitchen tables, carpets, couches, car
e filter and crevice tool for hard-to-reach corners. It has an
e searchlight is a powerful emergency light. The beam
inutes when fully charged. The VACLITE comes with a
charge" on the wall or on a flat surface such as a kitchen
ed by AC household current, the bracket keeps the nickel-
n. No more disposable batteries to replace.

• Compact, lightweight 5 kg for true portability. • Probes included.

SPECIFICATIONS

VERTICAL DEFLECTION (2 Identical Channels)—Bandwidth and Rise Time: DC to at least 50 mHz and rise time 7.0ns or less. DC to at least 10 mHz and rise time 35ns or less at magnifier extends. Lower —3dB point, AC coupling 10 Hz or less. 10X probe: 1 Hz or less. **Deflection Factor:** 5mV/div to 5V/div in 10 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X5 magnifier extends min. deflection rate to 1 mV/div. **Accuracy:** ±3% (+10 to +35°C) Additional error for magnifier ±2%. **Display Modes:** CH1, CH2 (normal or invert) Alternate, chopped (250 kHz rate), Added. **Input Impedance:** 1M ohm ±2% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC+peak AC). **Delay Line:** Permits viewing leading edge of displayed waveform. CH1 Out: CH1 out is DC to at least 10 mHz and 25 mV/div ±30% terminated into 50 ohm, and 50 mV/div ±30% terminated into 1 Mohm. **HORIZONTAL DEFLECTION—Time Base A:** 0.1us/div to 0.2s/div in 20 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X10 mag. extends fastest sweep rate to 10ns/div. **Time Base B:** 0.1us/div to 2ms/div in 14 calibrated steps 1-2-5 sequence. X10 magnifier extends fastest sweep rate to 10ns/div. **Accuracy:** ±3% (+10 to +35°C). Additional error for magnifier ±2%. **Horizontal Display Modes:** A only, A intensified, B delayed. **Calibrated Sweep Delay:** Continuous calibrated control between 0.5 and 10 time base A setting. **Delay Time Jitter:** Better than 1:20,000. **TRIGGERING A AND B—A Trigger Modes:** Automatic, Normal, Single sweep, TV-V, TV-H. **A Trigger Hold-off:** Adjustable control permits stable presentation of repetitive complex waveform. **A Trigger Source:** Internal (CH1, CH2), Line, External, External÷10. **A Trigger Slope:** + or —. **A Trigger Sensitivity:** Internal—DCto 10 mHz: 0.5div. 10 to 50 mHz: 1.5div. External—DC to 10 mHz: 150mV. 10 to 50 mHz: 500mV. **A Trigger Coupling:** AC: 30 Hz to full bandwidth. HF Rej: 30 Hz to 10 kHz. DC: 0 to full bandwidth. **A External Trigger Input Impedance:** 1M ohm ±20% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC+peak AC). **B Trigger Modes and Source:** Automatic, Normal. **B Trigger Slope:** + or —. **Trigger Coupling:** AC only; 30 Hz to full bandwidth. **X-Y OPERATION (CH1; Horiz, CH2; Vert)—Deflection Factor:** Same as vertical deflection. **Accuracy:** Y: ±3% (+10 to +35°C). X: ±5% (+10 to +35°C). Additional error for CH1 and CH2 magnifier ±2%. **Bandwidth:** DC to at least 500 kHz. **Phase Error:** 3° or less from DC to 100 kHz. **POWER—Line Voltage:** 100V (90-130V). 200V (180-260V), 50/60/400 Hz. External DC: 11-14V, 1.5A. Battery operation: 2 hours continuous use use with the AD-509 (option). **DIMENSIONS—Size (WHD):** 8.5 x 4.3 x 13.8" (215 x 110 x 350mm). **Weight:** 11 lbs. (5 kg). **Accessories Supplied:** Two AT-10AH1.5 probes (10:1, 1:1 switchable), fuse, power cable, front cover, operation manual.

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OSCILLOSCOPES

HITACHI 35 MHZ DUAL TRACE OSCILLOSCOPI

MODEL V-355 (Probes Included)

REG. $899.95 OUR PRICE $599.95

Hitachi's new scope provides an unbeatable combination of lightweight scop to set new standards in cost plus performance. Its thin, light, compact desig ternal graticule CRT, with percent calibrations, autofocus, scale illumination

Specifications

Effective Area 8 x 10 div (1 div = 1 cm). **Acceleration Potential** 12kV. **Focus A Modulation - Effective Bandwidth** DC to 2 MHz. **Imput Impedance** 47 ohm (typ peak). **Voltage** 5V p-p or more. **VERTICAL DEFLECTION Sensitivity** 5 mV/div 1mV/div to 1 V/div ±5% (when using x5 amplifier) Uncalibrated continous co vided with lock positioning). **Uncal Lamp** Front panel lamp indicates the unc **width** DC to 35 MHz, -3 dB (at 8 div) DC to 7 MHz, -3 dB (at 8 div) (when using x5 magnification). **Signal delay lina** Permits viewing leading edge of displaye 500Vp-p or 300Vp-p (DC + AC peak at 1 kHz) **Imput Coupling** AC, GND, DC (1 ohm approximately 30 pF **Operating modes** CH1, CH2, ALT, CHOP, ADD. **Pol** CH1: X-axis, CH2: Y-axis. **Sensitivity** 5 mV/div to 5 V/div (when using x5 magn within 3°. **X axis bandwidth** DC to 500 kHz, -3 dB. **Dynamic range** 8 div or mo ment using an external frequency counter. **Output voltage** 20 mV/div or more **Impedanca** Approx 50 ohm. **HORIZONTAL DEFLECTION Trigger modes** AUT V-MODE), LINE, EXT. **Trigger coupling** AC. **TV Sync Internal** 1 div or more (ve signal). **Triggar Sansitivity Frequancy** 20 Hz to 5 MHz, **Internal** 0.5 div, **Extarn Internal** 1.5, **External** 800 mV. **AUTO low bandwidth** 25 Hz **Trigger slopa** ±. **E** 300 V (DC + AC peak at 1 kHZ). **Sweep tima** 0.2 us/div to 0.2s/div ± 3%, 19 with lock-positioning). **Uncaf lamp** Front panel lamp indicates the uncalibrate **CALIBRATOR Waveform** Approx. 1 kHz squarewave (duty cycle: 48:52 or mor prox. 45W. **DIMENSIONS** 310(W) x 130(H) x 370(D) mm, Approx. 6.5 kg. **TEMPI Accaasoriea AT-10AK 1.5 probes (10:1 1:1). . .2, Power Cabla. . .1, Instruction**

HITACHI PORTABLE OSCILLOSCOPES DC to 2

MODEL V-212 REG. $615.00 OUR PRICE $449.

DESCRIPTION

Hitachi's new series of scopes provides an unbeatable combination of high new standard in cost plus performance.

FEATURES

- Thin, light and compact design. • Large 6-inch rectangular, internal graticu
- High accuracy— ±3%. • High sensitivity—1 mV/div. • Stable, low-drift des
- 6 divisions of displayed dynamic range and accurate, distortion-free wavef
- All models have a special TV sync separation circuit enables quick measu
- Built-in signal delay line for observation of the leading edge of fast-risetim
- A convenient X-Y operation mode allows phase difference measurements

SPECIFICATIONS

VERTICAL DEFLECTION—Senaitivity: 5 mV/div to 5 V/div ±3%, 10 calibrate amplifier). Uncalibrated continuous control between steps 1: less than 2.5 (pr to 20 mHz, —3 dB (at 8 div) DC to 7 mHz, —3 dB (at 8 div) (when using X5 ar **Maximum input voltaga:** 500 Vp-p or 300 Vp-p (DC + AC peak at 1 kHz). **Input** Direct: 1 Mohm, approx. 30 pF. **Oparating modaa:** CH1, CH2, ALT, CHOP, AD ing X5 magnifier: 1 mV/div to 1 V/div). **Phasa diffarenca:** DC to 50 kHz within quency measurement using an external frequency counter. **Output voltaga:** 2 **TAL DEFLECTION—Trigger modaa:** AUTO, NORM, TV-V TV-H. **Triggar aource** or more (vertical sync signal). **External:** 1 Vp-p or more (vertical sync signal). nal: 1.5 div. External: 800 mV. **AUTO low bandwidth:** 25 Hz. **Trigger alopa:** ±. peak at 1 kHz). **Swaap tima:** 0.2 us/div to 0.2s/div ±3%, 19 calibrated steps. **magnifiar:** 10 times (±5%). **Maximum aweap tima:** 100 ns/div. (20 ns/div and **Voltaga:** 0.5 V ±3%. **POWER REQUIREMENTS:** AC 100/120/220/240 V ±10%

HITACHI 60 MHz, DUAL TRACE DELAYED SWE

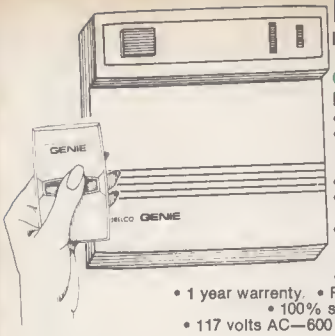
MODEL V-650F REG. $1195.00 OUR PRICE $94

FEATURES

- 6" rectangular CRT with internal graticule. • 1 mV/div high sensitivity desig
- Triple trace—convenient for checking synchronous signals and relationshi
- Equipped with delayed sweep function capable of magnification of any pa thousands.
- Employs TV sync separator circuitry with one touch synchronization of bot
- Automatic focus circuit eliminates loss of focusing. • Single sweep functic
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terre
- X-Y operation convenient for measurement of phase difference between tw
- Delayed sweep function with one touch control 10X magnification.
- Signal output: CH1 output terminal to frequency counter, etc. • Probes In

SPECIFICATIONS

CRT = 6" square with 10kV acceleration potential • **Vartical Daflaction** = S ±5% x 5 Magnifier extends, Bandwidth: DC to 60 MHz, DC to 60MHz, DC to CH1•CH2•ALT•CHOP•ADD (DIFF) •**Horizontal Deflection** = A Time Base: 5 50ms/div ±3%, Max. Sweep Rate: 5ns/div at x 10 Magnifier extends, Display Phase Error:3° from DC to 50kHz • **Dimanaiona** = 310(W) x 180(H) x 410(D) m



NORELCO™ GENIE®

MODEL RCS-4

OUR PRICE $39.95

FEATURES

- Never enter a dark house again.
- Operate lights and small appliances from up to 300 feet away (up to 6 times the range of competitive products.
- Turn TV or stereo on/off from bed or chair
- Convenient transmitter fits in purse or pocket — no external wires or antennas.
- Exclusive Receiver Switch—push button turns lights, appliances on/off without transmitter.
- Operating range up to 300 feet.

• 1 year warranty. • FCC approved. • UL listed. • Fuse-protected. • 100% solid-state circuitry. • 9-volt battery included. • 117 volts AC—600 watts maximum. • Dimensions: 8"x 6"x 3".

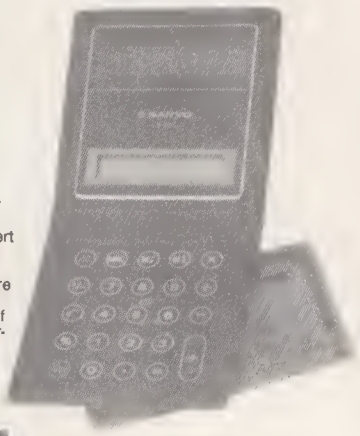
SANYO SOLAR-POWERED CALCULATOR IN FLIP CASE

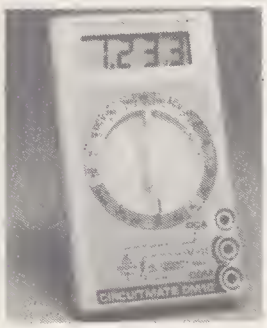
MODEL CX-800

OUR PRICE $12.95

DESCRIPTION

Sanyo's folding-type calculator has an exclusive amorphous silicon solar cells, which convert light to energy, so no batteries are needed. It is usable in low light areas, (where there is more than 50 lux). The magic-touch rubber leaf keys assures you of pin- point accuracy when entering data. Weight: 1.3 ozs. Dimensions: (WLD) (open) 2-3/4" x 5-15/18" x 3/16" (closed) 2-3/4" x 3" x 3/8"





CIRCUITMATE 3-1/2 DIGIT MULTIMETER

MODEL DM-10

OUR PRICE $39.95

FEATURES

- DC/AC Volts. • DC Amps.
- Resistance. • Diode Test.
- 0.8% Basic Accuracy (DC volts).
- Meter comes with Test Lead Set, Battery & Instruction Manual.

6 IN 1 EMERGENCY LIGHT

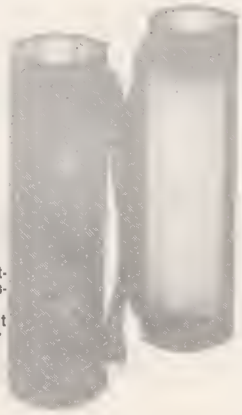
MODEL CH-122 OUR PRICE $9.95

FEATURES

- Flashlight • Red Emergency light
- Yellow blinking Warning light
- Adjustable belt for easy carrying

DESCRIPTION

A new 6-in-1 portable safety lamp for work, play and emergencies. Use it for camping, fishing, mountain climbing, as a signal light, for car repair, and for emergency light in your household. There are six settings on the lamp: fluorescent lamp only, yellow flasing light and fluorescent lamp, yellow flashing light only, red warning light only, and yellow flashing light with red warning light. This lamp can be powered by the car adaptor provided or by "D" batteries (not included).



HITACHI 100 MHz, QUAD TRACE DELAYED SWEEP SCOPE

MODEL V-1050F REG. $1980.00 OUR PRICE $1249.95

SPECIAL!

FEATURES

- Use of low halation dome mesh and large 6" rectangular CRT with internal graticule enables easy measurement even for quad trace waveforms. Screen is illuminated with newly developed phosphor for bright measurement at 20 kV acceleration potential.
- 500 uV/div high sensitivity design. • Quad-trace. • Equipped with delayed sweep function.
- Alternate sweep function permits enlarged waveform (delayed sweep) and entire original waveform (Main sweep) to be simultaneously displayed on the CRT screen.
- Employs TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuits eliminates loss of focusing. • Single swaep function.
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Delayed sweep function with one touch control 10X magnification. • Probes Included.

SPECIFICATIONS

CRT = 6" square with 20kV acceleration potential • **Vartical Deflection** = Sensitivity: 5mV/div to 5V/div ±2%, Max. Sensitivity: 0.5mV/div ±4% at x 10 Magnifier extends, Bandwidth: DC to 100MHz (-3dB), DC to 5MHz (-3dB) at x 10 Magnifier extends, Modes: CH1•CH2•ALT•CHOP•ADD (DIFF) • **Horizontal Daflection** = A Time Base: 20ns/div to 0.5s/div ±2%, B Time Base: 20ns/div to 50ms/div ±2%, Max Sweep Rate to 2ns/div at x 10 Magnifier extends, Display Modes: A, A Inten, ALT, B •X-Y **Operation (CH1: X, CH2: Y)** = Phase Error: 3° from DC to 2MHz •**Dimension** = 310 (W) x 180(H) x 410 (D)mm • **Weight** = 9.3kg/20.5 lb.

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SANYO
COMPACT CASSETTE TAPE RECORDER
MODEL M-1111

OUR PRICE $39.95

FEATURES
- Quick Record/Quick Review.
- One-Touch Recording.
- AC Adaptor Included.
- Digital Tape Counter.
- Cue & Review. • Pause Control.
- Auto Stop. • Built-In Mic.
- Automatic Level Control.
- LED Battery Check/ Record Level Indicator.
- Earphone Jack. • Carrying Strap.

POCKET BATTERY TESTER
MODEL 0333

OUR PRICE $7.95 each
5 FOR $35.00

FEATURES
- Small and Handy: easy to use fits in the palm of your hand.
- Test: 9V and any 1.5V batteries including button batteries.
- Fast and Accurate: meter show if batteries are good, low or in need of replacement.

SANYO SPACIL PENCIL SHARPENER
MODEL PSN-P6

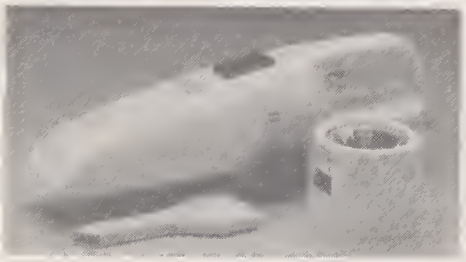
OUR PRICE $29.95

FEATURES
- Rechargeable pencil sharpener with six LEDs with turn on and off when Spacil is operating.
- Compact, lightweight unit with precision blade.
- Turns on automatically when pencil is inserted.
- Selector for three degrees of sharpness.
- Built-in safety system provides complete protection.
- Fold-in plug for easy recharging of Cadnice batteries.

TOSHIBA SEARCHLIGHT CLOCK/RADIO
MODEL K-503E

OUR PRICE $59.95

FEATURES
- AM/FM Radio.
- Quartz Alarm Clock.
- Focused-type rectangular Searchlight.
- Alarm clock equipped with snooze control.

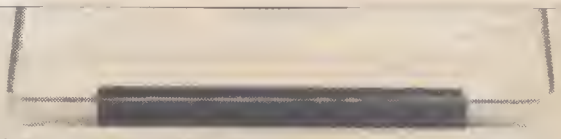


SANYO VACLITE CORDLESS VACUUM & SEARCHLIGHT
MODEL PC-30L **OUR PRICE $39.95**

DESCRIPTION
Sanyo's VACLITE is a rechargeable cordless hand vacuum and searchlight. This compact vacuum has powerful suction to clean-up small jobs such as spills and crumbs on kitchen tables, carpets, couches, car interiors and workshops. It comes with a washable filter and crevice tool for hard-to-reach corners. It has an auto return switch which saves battery power. The searchlight is a powerful emergency light. The beam reaches as far as 200 yards and operates for 90 minutes when fully charged. The VACLITE comes with a reliable charging bracket. Store the VACLITE "in charge" on the wall or on a flat surface such as a kitchen counter for handy, spontaneous use. Being powered by AC household current, the bracket keeps the nickel-cadmium batteries constantly in "ready" condition. No more disposable batteries to replace.

• Compact, lightweight 5 kg for true portability. • Probes included.

SPECIFICATIONS



VERTICAL DEFLECTION (2 Identical Channels)—Bandwidth and Rise Time: DC to at least 50 mHz and rise time 7.0ns or less. DC to at least 10 mHz and rise time 35ns or less at magnifier extends. Lower —3dB point, AC coupling 10 Hz or less. 10X probe: 1 Hz or less. **Deflection Factor:** 5mV/div to 5V/div in 10 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X5 magnifier extends min. deflection rate to 1 mV/div. **Accuracy:** ±3% (+10 to +35°C) Additional error for magnifier ±2%. **Display Modes:** CH1, CH2 (normal or invert) Alternate, chopped (250 kHz rate), Added. **Input Impedance:** 1M ohm ±2% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC + peak AC). **Delay Line:** Permits viewing leading edge of displayed waveform. **CH1 Out:** CH1 out is DC to at least 10 mHz and 25 mV/div ±30% terminated into 50 ohm, and 50 mV/div ±30% terminated into 1 Mohm. **HORIZONTAL DEFLECTION—Time Base A:** 0.1us/div to 0.2s/div in 20 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X10 mag. extends fastest sweep rate to 10ns/div. **Time Base B:** 0.1us/div to 2ms/div in 14 calibrated steps 1-2-5 sequence. X10 magnifier extends fastest sweep rate to 10ns/div. **Accuracy:** ±3% (+10 to +35°C). Additional error for magnifier ±2%. **Horizontal Display Modes:** A only, A intensified, B delayed. **Calibrated Sweep Delay:** Continuous calibrated control between 0.5 and 10 time base A setting. **Delay Time Jitter:** Better than 1:20,000. **TRIGGERING A AND B—A Trigger Modes:** Automatic, Normal, Single sweep, TV-V, TV-H. **A Trigger Hold-off:** Adjustable control permits a stable presentation of repetitive complex waveform. **A Trigger Source:** Internal (CH1, CH2), Line, External, External ÷ 10. **A Trigger Slope:** + or —. **A Trigger Sensitivity:** Internal—DC to 10 mHz: 0.5div. 10 to 50 mHz: 1.5div. External—DC to 10 mHz: 150mV. 10 to 50 mHz: 500mV. **A Trigger Coupling:** AC: 30 Hz to full bandwidth. HF Rej: 30 Hz to 10 kHz. DC: 0 to full bandwidth. **A External Trigger Input Impedance:** 1M ohm ±20% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC + peak AC). **B Trigger Modes and Source:** Automatic, Normal. **B Trigger Slope:** + or —. **Trigger Coupling:** AC only; 30 Hz to full bandwidth. **X-Y OPERATION (CH1; Horiz, CH2; Vert)—Deflection Factor:** Same as vertical deflection. **Accuracy:** Y: ±3% (+10 to +35°C). X: ±5% (+10 to +35°C). Additional error for CH1 and CH2 magnifier ±2%. **Bandwidth:** DC to at least 500 kHz. **Phase Error:** 3° or less from DC to 100 kHz. **POWER—Line Voltage:** 100V (90-130V). 200V (180-260V), 50/60/400 Hz. External DC: 11-14V, 1.5A. Battery operation: 2 hours continuous use use with the AD-509 (option). **DIMENSIONS—Size (WHD):** 8.5 x 4.3 x 13.8" (215 x 110 x 350mm). **Weight:** 11 lbs. (5 kg). **Accessories Supplied:** Two AT-10AH1.5 probes (10:1, 1:1 switchable), fuse, power cable, front cover, operation manual.

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HITACHI 100 MHz, QUAD TRACE DELAYED SWEEP SCOPE

MODEL V-1050F **REG. $1980.00** **OUR PRICE $1249.95** **SPECIAL!**

FEATURES

- Use of low halation dome mesh and large 6" rectangular CRT with internal graticule enables easy measurement even for quad trace waveforms. Screen is illuminated with newly developed phosphor for bright measurement at 20 kV acceleration potential.
- 500 uV/div high sensitivity design. • Quad-trace. • Equipped with delayed sweep function.
- Alternate sweep function permits enlarged waveform (delayed sweep) and entire original waveform (Main sweep) to be simultaneously displayed on the CRT screen.
- Employs TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuits eliminates loss of focusing. • Single sweep function.
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Delayed sweep function with one touch control 10X magnification. • Probes included.

SPECIFICATIONS

CRT = 6" square with 20kV acceleration potential • **Vertical Deflection** = Sensitivity: 5mV/div to 5V/div ±2%, Max. Sensitivity: 0.5mV/div ±4% at x 10 Magnifier extends, Bandwidth: DC to 100MHz (-3dB), DC to 5MHz (-3dB) at x 10 Magnifier extends, Modes: CH1•CH2•ALT•CHOP•ADD (DIFF) • **Horizontal Deflection** = A Time Base: 20ns/div to 0.5s/div ±2%, B Time Base: 20ns/div to 50ms/div ±2%, Max Sweep Rate to 2ns/div at x 10 Magnifier extends, Display Modes: A, A Intsn, ALT, B •**X-Y Operation (CH1: X, CH2: Y)** = Phase Error 3° from DC to 2MHz •**Dimension** = 310 (W) x 180(H) x 410 (D)mm • **Weight** = 9.3kg/20.5 lb.

HITACHI 100MHz READOUT OSCILLOSCOPE

MODEL V-1070 REG. $1995.00 OUR PRICE $1599.95

DESCRIPTION

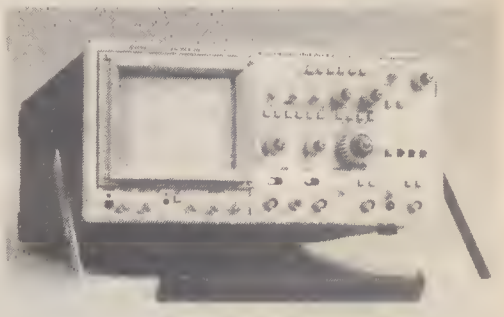
Character readouts simplify measurement values and increase accuracy and reading time. The scope digitally displays vertical and horizontal axis setting values. Mis-setting errors are dramatically reduced. The ability to record setting conditions as well as waveforms is an extremely convenient feature in ensuring the value of oscilloscope photographs.
It features electronic switching of delay time enables digital setting of this important setup parameter, enabling smooth, accurate setting. The set delay time is digitally displayed on the screen, eliminating the troublesome task of reading a multiturn potentio-meter.

SPECIFICATIONS

•**Four independant traces** 1. Independent position controls are provided for all four channels. 2. Selectable input coupling even on CH3 and CH4. 3. CH3 and CH4 sensitivity switchable between 0.1V and 0.5V/div, ideal for TTL and ECL levels. 4. Guaranteed equal bandwidth (100MHz) and Guaranteed equal bandwidth (100MHz) and accuracy (2%) for CH3 and CH4 as well as CH1 and CH2. 5. Channel-to-channel time skew of a mere 0.5ns between CH1 and CH2 and 1.0ns between other channels. •**Wide variety of sattable trigger conditions.** 1. Microcomputer controlled switching combines with an LED display to enable quick, easy setting of trigger conditions. 2. Built-in TV syc circuit (TV-V, TV-H). 3. HF REJ and LF REJ triggering. 4. Alternate triggering, ensures stable triggering, even with signals of different frequencies applied to CH1 and CH2. 5. A and B triggering selectable for all channels as required. 6. With TV-V selected for A trigger. B triggering is automatically selected as TV-H (enabling the observation of any desired line.) 7. With A triggering as TV-H. B triggering is automatically selected as AUTO. •**Alternate sweep** 1. Simultaneous observation of main and delayed sweeps. 2. Four-trace alternating sweep enables effective 8-trace operation. •Variable holdoff ensures stable triggering of even complex pulse trains. •A trace finder enables a trace off the screen to be found quickly. •In the NORM trigger mode, if the coupling of the channel selected as the trigger source is set to GND, the ground level will automatically sweep the trace. •Maximum sensitivity: 1mV/div (using x5 MAG) •Maximum sweep rate: 2ns/div (using x10 MAG) •Independent variable intensities for main sweep, delayed sweep and character display. •A dynamic focus circuit is used which automatically provides compensation of character and waveform focus occurring with changes in intensity. •Low drift and DC offset. •Sufficient frequency bandwidth margin to ensure undistorted squarewave response.

HITACHI
PORTABLE 100MHz OSCILLOSCOPE with CRT READOUT AND BUILT-IN MICRO-COMPUTER

MODEL V-1100 REG. $2500.00 OUR PRICE $2249.95



The exclusive Hitachi V-1100 features:

Readout functions	Digital Measurement functions	DVM	DC voltage: Corresponds to screen AC voltage: 50Hz to 10MHz	CH1 only	Display: 3 digits + units
		Frequency counter	Frequency: 120Hz to 99.9MHz		
	Cursor Readout function	REF, Δ cursors	Voltage Vabs: REF to GND Voltage V: Δ to REF Amplitude ratio: % (5 div = 100%) Time T: Δ to REF Time duty ratio: % (5 div = 100%) Phase: Deg (5 div = 360°) Frequency: 1/T = Δ to REF		
	Panel setting Value displays		Vertical axis: V/div, INVERT, ADD, BWL, UNCAL, MAG Sweep speed: s/div, UNCAL, MAG Other: delay time and A trigger source		
GND Reference function	Ground line display (GND LINE)		CH1 and CH2 displays are available.		

FEATURES

Features include qued channel (CH. 1,2,3,4,) with independent position controls, 8 trace with alternate sweep, 18kV-8" rectangular CRT, minimum deflection factor 1mv/div, maximum sweep time 2ns/div, TV-sync, X-Y operation up to 1 MHz (3° or less), variable hold-off, gate output for A and B sweep, CH 1 signal output to 100 MHz (-3dB)...plus much more.

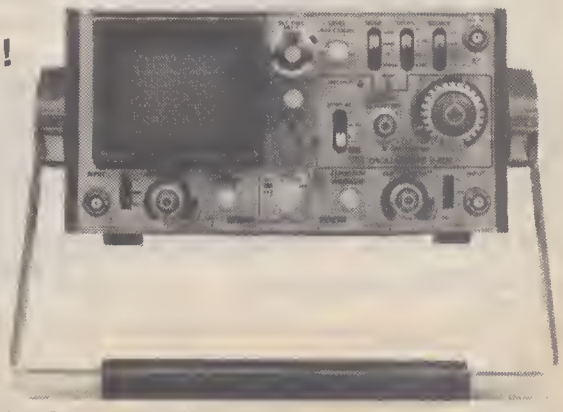
DESCRIPTION

Research, electronics, medical equipment development, military applications, or just general trouble-shooting...the Hitachi V-1100 Oscilloscope offers the ultimate in high-tech, high-versatility and high-value. The Intelligent Scope is the smartest choice you can make. This innovative state-of-the-art system is ruggedly engineered for enhanced reliability in the lab or out in the field.
Compare and you'll see why the Hitachi V-1100 is an incomparable value.

HITACHI MINI-PORTABLE DUAL-TRACE OSCILLOSCOPE

DC-50 mHz With Delayed Sweep

MODEL V-509 REG. $1399.00 OUR PRICE $995.00 SPECIAL!



FEATURES

- 3.5" rectangular, high luminescent, high resolution CRT with internal graticule.
- 1 mV/div high sensitivity design. • Equipped with delayed sweep function. • Single sweep function.
- Employe TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuit eliminates loss of focusing.
- Variable hold-off circuitry facilitates pulse measurement.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Three power supply type: AC, DC, and battery.
- Signal output: CH1 output terminal to frequency counter, etc.
- Compact, lightweight 5 kg for true portability. • Probes included.

SPECIFICATIONS

VERTICAL DEFLECTION (2 Identical Channels)—Bandwidth and Rise Time: DC to at least 50 mHz and rise time 7.0ns or less. DC to at least 10 mHz and rise time 35ns or less at magnifier extends. Lower —3dB point, AC coupling 10 Hz or less. 10X probe: 1 Hz or less. **Deflection Factor:** 5mV/div to 5V/div in 10 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X5 magnifier extends min. deflection rate to 1 mV/div. **Accuracy:** ±3% (+10 to +35°C) Additional error for magnifier ±2%. **Display Modes:** CH1, CH2 (normal or invert) Alternate, chopped (250 kHz rate), Added. **Input Impedance:** 1M ohm ±2% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC + peak AC). **Delay Line:** Permits viewing leading edge of displayed waveform. **CH1 Out:** CH1 out is DC to at least 10 mHz and 25 mV/div ±30% terminated into 50 ohm, and 50 mV/div ±30% terminated into 1 Mohm. **HORIZONTAL DEFLECTION—Time Base A:** 0.1us/div to 0.2s/div in 20 calibrated steps, 1-2-5 sequence. Uncalibrated continuous control between steps 1:less than 2.5. X10 mag. extends fastest sweep rate to 10ns/div. **Time Base B:** 0.1us/div to 2ms/div in 14 calibrated steps 1-2-5 sequence. X10 magnifier extends fastest sweep rate to 10ns/div. **Accuracy:** ±3% (+10 to +35°C). Additional error for magnifier ±2%. **Horizontal Display Modes:** A only, A intensified, B delayed. **Calibrated Sweep Delay:** Continuous calibrated control between 0.5 and 10 time base A setting. **Delay Time Jitter:** Better than 1:20,000. **TRIGGERING A AND B—A Trigger Modes:** Automatic, Normal, Single sweep, TV-V, TV-H. **A Trigger Hold-off:** Adjustable control permits a stable presentation of repetitive complex waveform. **A Trigger Source:** Internal (CH1, CH2), Line, External, External ÷ 10. **A Trigger Slope:** + or —. **A Trigger Sensitivity:** Internal—DC to 10 mHz: 0.5div. 10 to 50 mHz: 1.5div. External—DC to 10 mHz: 150mV. 10 to 50 mHz: 500mV. **A Trigger Coupling:** AC: 30 Hz to full bandwidth. HF Rej: 30 Hz to 10 kHz. DC: 0 to full bandwidth. **A External Trigger Input Impedance:** 1M ohm ±20% in parallel with 30 pF approx. **Maximum Input Voltage:** 250V (DC + peak AC). **B Trigger Modes and Source:** Automatic, Normal. **B Trigger Slope:** + or —. **Trigger Coupling:** AC only; 30 Hz to full bandwidth. **X-Y OPERATION (CH1; Horiz, CH2; Vert)—Deflection Factor:** Same as vertical deflection. **Accuracy:** Y: ±3% (+10 to +35°C). X: ±5% (+10 to +35°C). Additional error for CH1 and CH2 magnifier ±2%. **Bandwidth:** DC to at least 500 kHz. **Phase Error:** 3° or less from DC to 100 kHz. **POWER—Line Voltage:** 100V (90-130V), 200V (180-260V), 50/60/400 Hz. External DC: 11-14V, 1.5A. Battery operation: 2 hours continuous use use with the AD-509 (option). **DIMENSIONS—Size (WHD):** 8.5 x 4.3 x 13.8" (215 x 110 x 350mm). **Weight:** 11 lbs. (5 kg). **Accessories Supplied:** Two AT-10AH1.5 probes (10:1, 1:1 switchable), fuse, power cable, front cover, operation manual.

OSCILLOSCOPES

HITACHI VECTORSCOPE

MODEL V-089

REG. $1684.00

OUR PRICE $1514.00

FEATURES

- Compact and lightweight, able to be stored three to a 19" rack.
- Able to use three different power sources.
- Internal or external switching of synchronization possible. External sync input possible by loopthrough.
- Autofocus function.

SPECIFICATIONS

CHROMINANCE PROCESSING—Chrominance Bandwidth: Subcarrier Frequency (Fsc): 3.579545 mHz. Upper—3 dB point: Fsc+500 kHz ±100 kHz. Lower—3 dB point: Fsc—500 kHz ±100 kHz. **Vector Phase Accuracy:** Within 2°. **Pull-in range:** Within 100 Hz of Fsc. **Pull-in Time:** Within 1 second with subcarrier frequency within 100 Hz of Fsc. **Phase Shift with Subcarrier Frequency Change:** Within 1° from Fsc to Fsc +50 Hz, or from Fsc to Fsc —50 Hz. **Phase Shift with Burst Amplitude Change:** Within 2° from nominal burst amplitude to +6dB, or from nominal burst amplitude to —6 dB. **Phase Shift with Input Channel Change:** Within 1°. **Phase Shift with Front panel Gain Control change:** Within 1° from unity to 2 times unity, or from unity to one-half unity. **Phase Control Range:** 360° continuous rotation. **Burst Jitter:** Within 2°. **AMPLIFIER CHARACTERISTICS—Input Amplitude Range:** 1V ±8dB. **Maximum Input Voltage:** ±5V. **Variable Gain Control Range:** X0.5 - X5.0. **Gain Stability:** Within 2%. **Position Control Range:** HORIZ. and VERT. ±40 ~ ±20 IRE. **Clamp Stability:** (Spot centered within 1/8". **Center Spot Movement with Rotation of PHASE Control:** Within 1/64". **Input Isolation:** At least 40dB between channels. **Input Return Loss:** At least 40dB down, 5 mHz. **Input Impedance:** 1M ohm or more. **Input Coupling:** AC. **External Sync.:** Input signal requirement 1.6 to 4.5V composite sync. Input impedance 15 Kohm ±10%. **POWER—Line Voltage:** AC 100 or 120V volts within 10%. **Line Frequency:** 50 to 400 Hz. **Power Consumption:** Approx. 30 watts at normal line voltage. **External DC Source:** DC 11.5 to 14 volts at EXT terminal. **Optional Battery:** 2 hours or more. **Dimensions (W x H x D):** 145 x 88 x 395mm. **Weight:** Approx. 4kg. (without battery pack). Approx. 2.5kg. (battery pack).

HITACHI NTSC TELEVISION WAVEFORM MONITOR

MODEL V-099

REG. $1350.00

OUR PRICE $1215.00

FEATURES

- Compact and lightweight—able to be stored three to a 19" rack.
- IRE unit graticule for convenient measurement of video signals.
- Able to use three different power sources.
- DC restorer maintains blacking level constant even with changes in video signal amplitude.
- Four sweep modes for observation of various sections of waves.
- Internal or external switching of synchronization possible. External sync input possible by loopthrough.
- Autofocus function.

SPECIFICATIONS

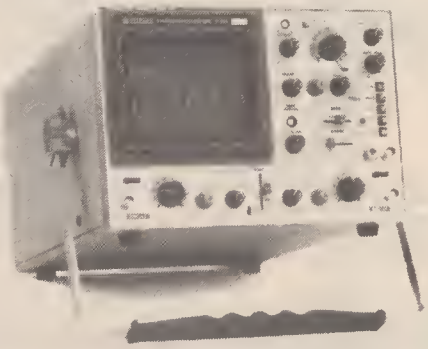
VERTICAL DEFLECTION—Frequency response at 1V Full Scale or 4V Full Scale Flat: Response from 25 Hz to 5 mHz within ±5% of response at 50 kHz. **IRE:** Response per 1958 IRE STD 23S-1 ±10%. **3.58 Band Pass:** Response at 3.58 mHz does not vary between FLAT and 3.58 BAND PASS by more than 1%. **DEFLECTION FACTOR—1V Full Scale:** 140 IRE units within 2% with 1 volt input. **4V Full Scale:** 140 IRE units within ±3%. **Maximum input level (AC coupled): 1V Full Scale:** ±5V DC. **4V Full Scale:** ±5V DC. **Input Impedance (not terminated): 1V Full Scale:** 15K ohm paralleled with approx. 50 pF. **4V Full Scale:** 60K ohm paralleled with approx. 50 pF. **Video Output:** Frequency Response: 25 Hz to 5 mHz within ±8%. **Nominal Output Impedance:** 75 ohm ±10%. **DC Level on Output:** 1V within 15% for 140 IRE units display with RESPONSE at FLAT. **HORIZONTAL DEFLECTION—2V Sweep: Repetition Rate:** Equal to frame rate at applied video or external sync. **Length (when sync'd to video signal):** 12.1 div within ±1 div. **2V MAG Sweep: Magnification:** X20 within ±10%. **2H Sweep: Repetition Rate:** Equal to half line rate of applied video or external sync. **1us/div Sweep Accuracy:** ±3%. **EXTERNAL SYNC—Input Signal Requirement:** 1.5V to 4.5V composite sync will synchronize sweeps. **Input Impedance:** 15K ohm in parallel with approx. 10 pF. **POWER—Line Voltage:** AC 120 volts within 10%. **Line Frequency:** 50 to 400 Hz. **Power Consumption:** Approx. 30 watts at normal line voltage. **External DC Source:** DC 11.5 to 14 volts at EXT terminal. **Optional Battery:** 2 hours or more. **DIMENSIONS—Size (WHD):** 145 x 88 x 395mm. **Weight:** Approx. 4 kg. **AD-099** Battery Pack...$250.00

HITACHI 10 MHz STORAGE OSCILLOSCOPE

MODEL V-134

REG. $1620.00

OUR PRICE $1458.00



FEATURES

- 50 div/ms stored writing speed (Fast mode). Writing possible at standard writing speed of 25 div/ms and at double speed of 50 div/ms by Fast mode function.
- Clear waveform observation. Employs a BHD direct-viewing storage tube resistance to burnouts or shock and capable of providing clear, high contrast waveform observation.
- Advanced high sensitivity design. Incorporates the high sensitivity basic design which has made Hitachi oscilloscopes famous: 1 mV/div vertical sensitivity realized.
- Capable of being used as a 10 mHz oscilloscope. V-134 is capable of use as a dual trace oscilloscope with DC-10 mHz bandwidth, and an 8 div. dynamic range (ensuring screen waveform linearity). Changeover to storage function is effected by simple operation.
- Autoerase function, remote erase terminal. Erase time is variable from 0.5 to 10 sec. Automatic repetition of recording and erasure is possible. A remote terminal is provided to enable erasure by outside signals. The autoerase function and remote erase terminal make the V-134 optimal for use on production lines.
- High sensitivity X-Y operation. X-Y operation is possible, convenient for measurement of phase differences of two waveforms.
- TV sync-separator circuit. TV sync-separator circuit enabling speedy measurement of video signals is built in.

SPECIFICATIONS

CRT—Type: 5 inch, round with external graticule and scale illumination. **VERTICAL DEFLECTION—Sensitivity and Frequency Bandwidth:** 5 mV/div to 5 V/div (10 steps) ±3%. With X5: 1 mv/div to 1V/div (10 steps) ±5%. Uncalibrated continuous control between steps 1:less than 2.5. DC to 10 mHz —3 dB (8 div. standard). With X5: DC to 7 mHz —3dB (8 div standard). **Rise Time:** 35 ns, when X5: 50 ns. **Input Withstand Voltage:** 500 Vp-p or 300V (DC+AC peak, at 1 kHz). **Input Connection:** AC, GND, DC. **Input Impedance:** Direct: 1 Mohm, 30 pF. **Operating Modes:** CH1, CH2, DUAL, ADD, DIFF. **X-Y Operation:** CH1: X-axis, CH2: Y-axis. **Sensitivity:** Same as vertical deflection sensitivity. **Phase Difference:** Within DC to 50 kHz 3°. **X Bandwidth:** DC to 500 kHz —3 dB. **HORIZONTAL DEFLECTION—Trigger Mode:** AUTO, NORM, SINGLE, TV (—). **Trigger Source:** CH1, CH2, LINE, EXT. **Trigger Coupling:** AC, DC. **TV Trigger:** Sync-separator circuit. Internal: 1 div or more (vertical sync signal). External: 1 Vp-p or more (vertical sync signal). **Trigger Sensitivity:** Frequency: DC to 5 mHz; Internal: 0.5 div; External: 200 mV. Frequency: 5 to 10 mHz; Internal: 1.0 div; External: 600 mV. **Auto Low Bandwidth:** 20 Hz. **Trigger Slope:** ±. **External Trigger Input:** Input impedence: 1 Mohm, 30 pF. Max. input voltage: 300 V (DC+AC peak, at 1 kHz). **Sweep Time:** 2 us/div. to 2 sec/div (10 steps) ±3%. Uncalibrated continuous control between steps 1: less than 2.5. **Sweep Magnifier:** 10 times. **Maximum Sweep Time:** 200 ns/div. **Power:** 100/120/220/240V ±10%, with changeover switch 50 to 60 Hz, 60W. **Dimensions (approx.) (W x H x D):** 275 x 190 x 400mm. **Weight:** Approx. 10kg. **Accessories Supplied:** Two AT-10AF1.5 probes (10:1/1:1 switchable), Power cable, operation manual. • **Probes included**

HITACHI DIGITAL STORAGE OSCILLOSCOPE 1 MHz/2 channels, 1000 words per channel

MODEL VC-6015 **REG. $2095.00** **OUR PRICE $1895.95**

DESCRIPTION

A full-feature digital storage scope from Hitachi. Study the specifications and you will agree that Hitachi is serious about high-performance storage scopes.

FEATURES

- Usable as both a conventional oscilloscope and a digital storage scope. By merely changing the display mode, the VC-6015 can be used as a 10 mHz, dual-trace oscilloscope.
- Pretriggering allows capture of events before the trigger point. Recording of an input waveform is begun by the input of a trigger pulse. For measurements on waveforms from such events as collisions, explosions and earthquakes, the pretrigger function enables the capture of an event before the trigger pulse occurs, a feat that is impossible with conventional CRT-storage type storage scopes. The pretrigger position may be set at 0, 2, 5, or 8 divisions, and the trigger point is displayed on the CRT as an intensified point, allowing the user to determine its relationship to the captured waveform.
- Convenient free-run mode for use in recording repeating events. The free-run mode may be used to continuously observe repeating events, and the display time may be varied between 1 to 5s.
- A hold function maintains one stored waveform while another is captured. By selecting the convenient hold mode, the waveform stored from channel 1 may be held in memory while that from channel 2 is captured, and the reverse hold function is possible as well. This allows separate hold of channel 1 and channel 2 waveforms.
- Recording function enables a pen recorder to be used to create a hard copy of stored waveforms. The waveforms stored in memory from channels 1 and 2 may be simultaneously output to a pen recorder to provide a hard copy record of the waveforms. An X-axis sweep signal usable with X-Y recorders is also output during this recorder output period.
- Power requirements: AC 100/120/220/240 V ±10% (Switch selectable) 50/60 Hz. • Dimensions: (WHD) 310mm x 180mm x 410mm. • Weight: 22 lbs.
- Accessories supplied: 2 AT-10AK 1.5 probes, 1-dust cover and instruction manual.

HITACHI PORTABLE DUAL TRACE 1MV/DIV OSCILLOSCOPES

MODEL V-222 (20 mHz)
REG. $715.00 OUR PRICE $549.95

MODEL V-422 (40 mHz)
REG. $895.00 OUR PRICE $699.95

V-222

V-422

DESCRIPTION
Hitachi's new series of scopes provides an unbeatable combination of high performance and light weight, and are destined to set a new standard in cost plus performance.

FEATURES
- Thin, light and compact design. • Large 8-inch rectangular, internal graticule CRT.
- Autofocus circuit and scale illumination. • DC offset function.
- Voltage and frequency reading outputs. • Alternate magnify function. • VERT mode triggering. • High accuracy—±3%.
- High sensitivity—1 mV/div. • Stable, low-drift design.
- 8 divisions of displayed dynamic range and accurate, distortion-free waveform measurements.
- All models have a special TV sync separation circuit enables quick measurements of video signals.
- Built-in signal delay line for observation of the leading edge of fast-risetime signals.
- A convenient X-Y operation mode allows phase difference measurements between two waveforms. • Probes included.

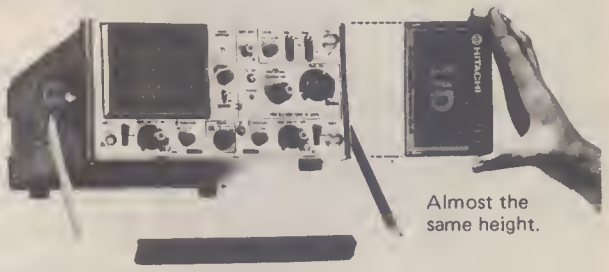
SPECIFICATIONS
VERTICAL DEFLECTION—Sensitivity: 5 mV/div to 5 V/div ±3%, 10 calibrated steps. 1 mV/div to 1 V/div ±5% (when using X5 amplifier). Uncalibrated continuous control between steps 1: less then 2.5 (provided with lock-positioning). **UNCAL Lamp:** Front panel lamp indicates the uncalibrated condition. **Frequency bandwidth:** DC to 40 mHz, —3 dB (at 8 div) DC to 7 mHz, —3 dB (at 8 div) (when using X5 amplifier). **Risetime:** 8.8 ns (50 ns for X5 magnification). **Signal delay line:** Permits viewing leading edge of displayed waveform. **Maximum input voltage:** 500 Vp-p or 300 Vp-p (DC+AC peak at 1 kHz). **Input coupling:** AC, GND, DC (lever switch). **Input impedance:** Direct: 1 Mohm, approx. 30 pF. **Operating modes:** CH1, CH2, ALT, CHOP, ADD. **Polarity switching:** CH2 only. **X-Y operation:** CH1: X-axis, CH2: Y-axis. **Sensitivity:** 5 mV/div to 5 V/div (when using X5 magnifier: 1 mV/div to 1 V/div). **Phase difference:** DC to 50 kHz within 3°. **X-axis bandwidth:** DC to 500 kHz, —3 dB. **Dynamic range:** 8 div or more. **DC offset function:** ±1 to ±100 V (direct). **Voltage reading output:** Provided to enable voltage measurement using an external DMM. **CH1 output:** Provided to enable frequency measurement using an external frequency counter. **Output voltage:** 20 mV/div or more. **Frequency bandwidth:** 50 Hz to 5 mHz, —3 dB. **Output impedance:** Approx. 50 ohm. **HORIZONTAL DEFLECTION—Trigger modes:** AUTO, NORM, TV-V TV-H. **ALT/MAG functions:** Selectable simultaneously. **Trigger source:** INT (CH1, CH2, V-MODE), LINE, EXT. **Trigger coupling:** AC. **TV sync:** TV sync separation circuit. **Internal:** 1 div or more (vertical sync signal). **External:** 1 Vp-p or more (vertical sync signal). **Trigger sensitivity:** Frequency: 20 Hz to 5 mHz. Internal: 0.5 div. External: 200 mV. Frequency: 5 to 40 mHz. Internal: 1.5 div. External: 800 mV. **AUTO low bandwidth:** 25 Hz. **Trigger slope:** ±. **External trigger input:** Input impedance: Approx. 1M, Approx. 30pF. Maximum input voltage: 300 V (DC+AC peak at 1 kHz). **Sweep time:** 0.2 us/div to 0.2s/div ±3%, 19 calibrated steps. Uncalibrated continuous control between steps 1:less then 2.5 (provided with lock-positioning). **UNCAL lamp:** Front panel lamp indicated the uncalibrated condition. **Sweep time magnifier:** 10 times (±5%). **Maximum sweep time:** 20 ns/div. **CALIBRATOR—Waveform:** Approx. 1 kHz squarewave (duty cycle: 48:52 or more). **Voltage:** 0.5 V ±3%. **POWER REQUIREMENTS:** AC 100/120/220/240 V ±10%, connector selectable, 50/60 Hz Approx. 45W. **DIMENSIONS (W x H x D):** 310 x 130 x 370mm. Approx. 8.5 kg.

SPECIFICATIONS (V-222 only)
Frequency bandwidth: DC to 20 mHz, —3 dB (at 8 div). DC to 7 mHz, —3 dB (at 8 div) (when using X5 amplifier). **Risetime:** 17.5 ns (50 ns for X5 magnification). **Trigger sensitivity:** Frequency: 20 Hz to 2 mHz. Internal: 0.5 div. External: 200 mV. Frequency: 2 to 20 mHz. Internal: 1.5 div. External: 800 mV. **Maximum sweep time:** 100 ns/div (20 ns/div and 50 ns/div are uncalibrated).

HITACHI MINI PORTABLE DUAL TRACE OSCILLOSCOPE

MODEL V-209 REG. $995.00 OUR PRICE $790.00

FEATURES
- 3.5" rectangular, high luminescent, high resolution CRT with internal graticule.
- 1 mV/div high sensitivity design.
- Employs TV sync separator circuitry with one touch synchronization of both TV horizontal and vertical signals.
- Automatic focus circuit eliminates loss of focusing.
- Trace rotation system for easily adjusting trace inclination caused by terrestrial magnetism.
- X-Y operation convenient for measurement of phase difference between two signals.
- Three power supply type: AC, DC and battery. Effective for maintenance and servicing of electronic equipment outdoors.
- Compact, lightweight 4.5 kg for true portability.
- Probes included.


Almost the same height.

SPECIFICATIONS
CRT: 3.5" square with 1.5kV acceleration potential. **Vertical Deflection: Sensitivity: 5mV/div to 5V/div** ±3%, Max Sensitivity: 1mV/div ±3% at x 5 Magnifier extends, Bandwidth: DC to 20 MHz (-3dB), DC to 5MHz (-3dB) at x 5 Magnifier extends Modes: CH1, CH2, ALT, CHOP, ADD (DIFF). **Horizontal Deflection:** Time Base: 0.5 us/div ±3%, Max Sweep Rate: 50 ns/div at x 10 Magnifier extends. **X-Y Operation (CH1: X, CH2: Y):** Phase Error 3° from DC to 100 kHz. **POWER—Line Voltage:** 100V (90-130V). 200V (180-260V), 50/60/400 Hz. External DC: 11-14V, 0.8A. Battery operation approx. 2 hours continuous use with the AD-209. **Dimension: (WHD)** 215 x 110 x 350mm (8.5 x 4.3 x 13.8"). **Weight:** 4.5 kg (9.9 lbs.). **Accessories Supplied:** Two AT-10AF1.5 probes (10:1, 1:1 switchable), fuse, power cable, DC power cable, operation manual, AD-209 battery pack.

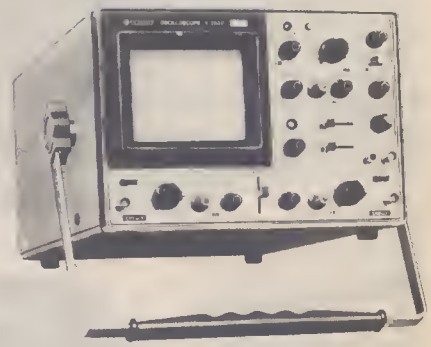
HITACHI DC 20MHz DUAL TRACE DELAYED SWEEP OSCILLOSCOPE

MODEL V-203F
REG. $749.00
OUR PRICE $635.00

SPECIFICATIONS
• CRT = 5.5" square with internal graticule • **Vertical Deflection** = Sensitivity: 5mV/div ±3%, Max. Sensitivity: 1mV/div to 1V/div ±5% at x 5 Magnifier extends, Bandwidth: DC to 20MHz (-3dB), DC to 7MHz (-3dB) at x 5 Magnifier extends, Modes: CH1•CH2•DUAL•ADD (DIFF) • **Horizontal Deflection** = Sweep Time: 0.2us/div to 0.2s/div ±3%, Delay Time: 1us to 100ms, Max, Sweep Rate: 100ns/div at x 10 Magnifier extends, Display Mode: NORM, INTEN, DELAY • **X-Y Operation (CH1: X, CH2: Y)** = Phase Error: 3° from DC to 50 kHz • **Dimensions** = 275(W) x 290(H) x 400(D)mm/11 x 7.5 x 15.8 in. • **Weight** = 8.5kg/18.8 lb.

HITACHI DC 35MHz DUAL TRACE DELAYED SWEEP OSCILLOSCOPE

MODEL V-353F
REG. $949.95
OUR PRICE $799.95



SPECIFICATIONS
• CRT = 5.5" square with internal graticule • **Vertical Deflection** = Sensitivity: 5mV/div to 5V/div ±3%, Max. Sensitivity: 1mV/div ±5% at x 5 Magnifier extends, Bandwidth: DC to 35MHz (-3dB), DC to 7MHz (-3dB) at x 5 Magnifier extends, Modes: CH1•CH2•DUAL•ADD (DIFF) • **Horizontal Deflection** = Sweep Time: 0.2us/div to 0.2s/div ±3%, Delay Time: 1us to 100 ms, Max. Sweep Rate: 20ns/div at x 10 Magnifier extends, Display Modes: NORM, INTEN, DELAY • **X-Y Operation (CH1: X, CH2: Y)** = Phase Error: 3° from DC to 50kHz • **Dimensions** = 275 (W) x 190 (H) x 400 (D)mm/11 x 7.5 x 15.8 in. • **Weight** = 8.5kg/18.8 lb.

HITACHI ACCESSORIES

Model	Description	Our Price
AD-099	Ni-Cad Rechargeable Battery for V-099/V-069	$250.00
AD-209	Ni-Cad Rechargeable Battery for V-209	75.00
AD-509	Ni-Cad Rechargeable Battery for V-509	300.00
B-654	Viewing Hood for V-353F, V-203F, V-134 (VH-3510)	10.00
B-354	Viewing Hood for V-509 and V-209 (VH-5020)	10.00
B-653	Viewing Hood for V-850F and V-1050F (VH-6010)	10.00
B-353	Viewing Hood for V-089, V-099 (VH-8999)	10.00
RM-099	Triple V-099/V-89 Rack Mount	200.00
6509	Dust Cover w/Accessory Pocket (DC-2035) For V-203F V-203F, V-353F, V-134	35.00
8507	Dust Cover w/Accessory Pocket (DC-8010) For V-650F and V-1050F	35.00
8512	Dust Cover for V-222, V-422 (DC-4222, V-355)	39.95
6513	Dust Cover for V-212, V-211 (DC-2121)	39.95
8701	Accessory Pouch for V-650F and V-1050F (AP-5010)	40.00
8702	Accessory Pouch for V-509 and V-209 (AP-5020)	35.00
8704	Accessory Pouch for V-422, V-355, V-222, V-212, V-211 (AP-4222)	40.00
6803	Front Cover for V-850F and V-1050F (FC-5010)	20.00
8804	Front Cover for V-509 and V-209 (FC-5020)	18.00
6806	Front Cover for V-422, V-355, V-222, V-212, V-211 (FC-4222)	28.95

OSCILLOSCOPES/CAMERA

B&K PRECISION 100 MHz, QUAD INPUT DUAL INDEPENDENT TIME BASE OSCILLOSCOPE

MODEL 1590A **REG. $1995.00** **OUR PRICE $1499.95**

$90 *FACTORY REBATE EXPIRES 12-31-85*

FEATURES

- 1mV/division sensitivity to full bandwidth. •500uV/division cescede eeneitivity to 70 MHz. •23 calibreted sweeps.
- Signal delay line •Channel 1 output. •Video Sync. separation. •20 MHz bandwidth limiter.
- Power Req: 90-264VAC; 45 to 400 Hz, epprox. 56W. •Dimensions: 5-1/4"H x 11-1/4"W x 15-3/4"D, Weight: 16-1/4 lbe.
- Comes with 2-10:1 probes, spare fuses, probe holder, instruction manuel.

DESCRIPTION

The B&K PRECISION Model 1590A, 100 MHz quad input eight trace oscilloscope brings high performence standards and a vast erray of feeturee into one efficient package.

High Brightnese CRT- All eignais ere dieplayed on e high brightness domed mesh rectangular CRT with 20 kV accelerating potentiel, internal graticule with full 8x10 div., end illuminteted greticule.

1 mV/div Vertical Sensitivity- The 1590A provides 1 mV/div vertical sensitivity over its **entire** 100 MHz bendwidth. Response et 120 MHz is down only -6dB. For applications requiring extremely high single-channel sensitivity, the 1590A provides 500uV vertical seneitivity in cascade operation. The channel 1 vertical emplifier output is connected to the channel 2 input in this mode.

Dual Independent Time Bese- When in the DUAL Mode, the 1590A provides independent operation of the A Sweep and B Sweep circuits. In this mode of operation the A Sweep is operated by the A trigger section end the B Sweep is opereted by the B trigger section. Duel independent time bese operation ellows the 1590A to ect like two 100 MHz oscilloscopes end to display signeis unreleted in time with their own independent trigger sections. An exemple of this is to use channels 1 end 3 in conjunction with the A time base end chennels 2 end 4 with the B time base.

Four Input Chennele- A significant feature thet sets the 1590A epart from other scopes in its price class is four input operetion. The most common application for quad display is to use channels 3 and 4 to display the external triggering signals epplied to channeis 1 and 2. Another applicetion of the four channel inputs is to display four digital signels. For example, in enalyzing a digital circuit or micro-processor-based circuit controlled by one time bese, digital signals can ba observed at four circuit points simultaneously. When opereted in the "V-mode," four signele not related in frequency can be displayed in-sync simultaneously. Any of the four channele can be displayed or deleted. For channels 1 end 2, the vertical input ettenuetor offers ten renges in the conventionel 1-2-5 sequence, with vernier provided. As channels 3 and 4 ere intended for supplemental use, two position vertical input attenuators are provided.

Full Deleyed-Sweep- In deleyed-sweep operation, the deleyed signal can be viewed as e second trace or superimposed on the non-delayed signal. Dual intensity controls are provided for the delayed end original time-base signels. The sweep range for time base A is celibreted from 20 ns/div to 0.5 s/div in 23 steps; time base B covers 20 ns/div to 50 ms/div in 20 steps. The sweep vernier provides continuously variable adjustment between the 1-2-5 sequence time bese steps. An additionel X10 sweep magnifier is elso featured.

20 MHz Bandwidth Limitar- While the 1590A is ready to handle signels up to and beyond 100 MHz, B&K-PRECISION engineers realized that often, meny signals observed are under 20 MHz. For the reason, a selecteble 20 MHz bandwidth limiter circuit was designed into the 1590A. When activated, this circuit restricts -3dB bendwidth to 20 MHz filtering out extraneous signals at higher frequencies.

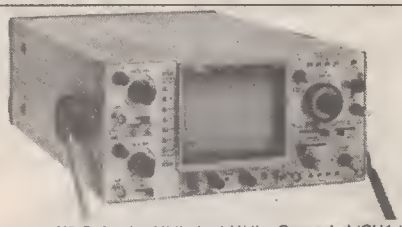
Rear-Panel Output Jeck- For simultaneous fraquancy measurement of signals observed on the 1590A, a bufferad rear-panel output jack is included to interface with a conventional frequency countar. With an impedanca of 50 ohms this convenient output alminates the need to use a T adaptor or to buy costly frequency counter/oscilloscope combinations.

Lighted Puch-Button Function Switching- All function switching on tha 1590A is parformed by soft touch, lightad pushbuttons that control full-logic switching circuits. When a touch-sensitive function button is ectivated, a red LED illuminates it. This unique design provides a positive display of the operation selected. Also, the switch position is maintained in memory when the power is off by e seperete battery power sourca.

And much more... Other features include e beem finder button, LED UNCAL indicators, single sweep operation, variable hold-off as well as altarnate or chop operation with two selectebla chop frequencies. Probe celibrators for both current end voltege probes are included. A and B gate outputs are providad on the rear panel, supplying gating pulsas from the A end B time bases for interface with external circuits.

B&K PRECISION QUAD-INPUT 80 MHz DUAL TIME BASE OSCILLOSCOPE

MODEL 1570-A **REG. $1395.00** **OUR PRICE $1095.00**



FEATURES

- 1mV/division sansitivity to 70 mHz. •500 uV/division cescade sensitivity to 40 MHz.
- 22 calibrated sweeps. •Rectangular CRT with internal graticule and sceie illumination.
- 12 kV accelerating voltage. •V Mode—displays four signels unralated in frequency.
- Alternate timebase operation. •Signel deley line.
- Lighted pushbutton function switching. •Video sync separators.
- Comas with 2-10:1 probes, spare fuses, probe holder, instruction manual.

SPECIFICATIONS

Vertical Amplifiers (CH1 and CH2) Deflection Fector: Standard: 5mV/div in 10 ranges, 1-2-5 sequence, each with vernier edjustment. X5 **Gain:** 1 mV/div to 1 V/div. **Cascaded** (CH1 to CH2): 500uV/div. **Accurscy:** ±3% (+10°C to +35°C). ±5% (0°C to +50°C). ±8% (cascaded operation, CH 1 to CH 2). **Frequancy Responee:** (X1 or X5 vertical gain) DC: DC to 80mHz (-3dB). DC to 40 MHz (cescaded). AC: 5Hz to 80mHz (-3dB). 7 Hz to 40 MHz (casceded). **Rise Time:** 5 ns or lees. **Bandwidth Limiting:** Frequency response can be limited to approximately 20 MHz by bandwith limit switch. **Imput Impedence:** 1 Megohm ±2% shunted by epprox. 28 pF. **CH 2 Polarity:** Normal or Inverted. **Maximum Input Voltega:** 250V (DC+AC Peak) or 500 VAC p-p. **Crosstelk:** -40 dB minimum. **(CH 3 and CH 4) Deflection Fector:** 0.1 V/div. ±3%. **Frequency Reeponse:** DC to 80 MHz (-3dB). **Risa Tims:** 5 ns or less. **Input Impedance:** 1Megohm ±2% shuntad by epprox. 28 pF. **Input Coupling:** DC only. **Meximum Input Displayed:** DC Component— ±0.5V. AC Component—1V p-p. **Meximum Input Voltage:** 50V (DC+AC peek.) **(CH 1 thru 4) Opereting Modsa:** CH 1—CH 1, single trece. CH 2—CH 2, eingle trece. DUAL—CH 1 and CH 2, dual trace. ADD—algebraic sum of CH 1+CH 2, single trace (CH 1—CH 2 thur CH 4, four trace. in DUAL and QUAD modes, eiternating or choppad traces selectable with ALT and CHOP switches. **Chop Frequency:** Approx. 250 kHz. **Signal Delay Time:** Fixad, approx. 20 ns visible delay. **Meximum Undistorted Amplitude: 6 divisione. SWEEP SYSTEM Modes:** A—A sweep. ALT-A sweep (intensified for duration of B sweep) end B sweep alterneting. A-INT-B—Duretion of B sweep is displayed es en intensified portion of the A sweep. B DLY'D—Delayad B sweep. X-Y—X-Y display mode. **A Sweep:** 50 ns/div to 0.5 s/Div in 1-2-5 eequence, 22 steps. Vernier control provides fully edjustable sweep time between gaps. **B Sweep:** 50 ns/div to 50 ms/div in 1-2-5 sequence, 19 steps. **Accurecy:** ±3% (+10°C to 35°C), ±6% (0°to +50°C). **Sweep Magnification:** 10X, ±5% (+10°C to +35°C), ±7% (0° to +50°C). **Lineerity:** ±3%; 10X, ±5%. **Holdoff:** Continuously adjustable for A sweep (NORM to more than 5 times normal). **Trace Sepsretion:** 0 to 4 divisions, continuously adjustable. **Dalay Method:** Continuously delay or trigger delay. **Delay Time:** 0.2 to 10 times A Sweep Time/Div setting, continuously edjusteble. **Time Difference Maseurement Accurecy:** ±2% (+10°C to +35°C). ±4% (0°C to +50°C). **Delay Jitter:** 1/20,000 of full scale sweap tima. **Powar Requirements:** 90-264VAC; 45 to 400 Hz, Approx. 55W. **Dimensions:** (HxWxD) 5-1/4" x 11-1/4" x 15-3/4". **Weight:** 16-1/4 lbs.

POLAROID DIRECT SCREEN INSTANT CAMERA

Polaroid introduces, a convenient way to make high quality photographic hard copies from oscilloscopes vidao monitors, computer terminals and CRT displays.

MODEL DS-34 **OUR PRICE $299.95**

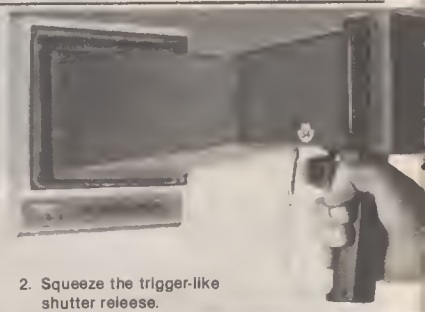
SPECIFICATIONS

CAMERA Size: 7-1/4" x 7-1/4" x 4-3/4" (Hood and pistol grip not included.) **Weight:** Lese then 2-1/2 lbs. **Handle:** Pistol grip with built-in trigger for one-hend operetion. **Lene:** 105mm, f/4.5, four element, specially-coated gless. **Shuttar:** Copel press #0. **Shutter release:** Single-stroke trigger, no cocking. **Shutter speede:** B, 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125. **Disphragms: f/4.5, f/5.6, f/8, f/11, f/16, f/22, f/32. Focus:** Fixed. **Beck:** Poleroid CB-103. **Mounting:** Hoods enep on end off camere housing for convenient storing end shipping. **Werenty:** Three yeare parts and iebor. **FILM:** Color or black and whita. **Formet:** 3-1/4" x 4-1/4". **Image size:** 2-7/8" x 3-3/4". **Imagas per pack:** 8.

ACCESSORIES: Interfece Mount, model 34-40, Color Filter Kit, model 34-60.

Black & White Film
model 667....$11.95 per twin pack.

1. Hold the DS-34 egainst display.



2. Squeeze the trigger-like shutter releese.

3. Pull the axposed film packat from tha cemere to etart the davelopment process.

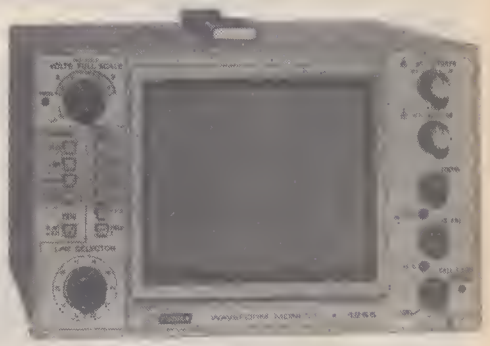
4. Seconds later, peel off your finished record.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

B&K PRECISION NTSC WAVEFORM MONITOR

NEW!

MODEL 1265 REG. $1995.00 OUR PRICE $1695.00



FEATURES

- Half-rack design. • 12kV accelerating voltage for bright, crisp waveform display.
- Illuminated, internal graticle with IRE unit and modulation percentage scales. • Calibrated, buffered vertical output.
- Selectable A or B inputs with loop-through BNC connections and built-in 75 ohm terminations.
- Blanking output for synchronized line examination. • 1V or 4V p-p calibrated vertical sensitivity.
- Uncal LED and variable vertical gain control. • Selectable FLAT response undistorted view of luminance and chroma components.
- IRE filter conforms to IRE Standard 23S-1. • CHROMA filter for viewing the chroma component only. • RGB/YRGB monitoring.
- DIFF GAIN mode to amplify chrome component for easier measurement of differential gain.
- Line selector for examining VITS or VIR waveforms - Line 13 through Line 22 of Field 1 or Field 2.
- Built-in, selectable 1V p-p square wave generator checks calibration accuracy. • Optional rack mount kit available.

APPLICATIONS

Monitor video signal from video camera to video tape recorder or from video tape recorder to video monitor...monitor video signal between two video cameras or between video camera and video tape recorder...designed for professional video applications such as television transmitting, video studios, video signal distribution centers, cable television installations, CCTV networks, large MATV networks, video product design laboratories and video product manufacturing and testing facilities...monitors white, grey and black and chroma levels...checks burst, sync level and vertical blanking.

SPECIFICATIONS

GENERAL: Compliance with EIA standard RS-170 and tentative standard RS-170-A. **VERTICAL SECTION: Input:** A or B, switch selectable; each with two BNC jacks on rear panel (input and loop-through). **Sensitivity:** (for 140 IRE full scale factor): **Ranges:** 1V and 4V p-p (calibrated), each with continuously variable vernier (uncalibrated). **Accuracy:** 1V Range: 1V ±2%, 4V Range: 4V ±3%. **Variable Range:** 1V Range: 0.25v or less to 1V., 4V Range: 1V or less to 4V. **HORIZONTAL SECTION: Sweep Modes:** 2H-Displays two horizontal lines (10µs/ div 3%)., 1µs/DIV-1 µs/div ±3% (displays two horizontal lines magnified 10 times)., 2V-Displays two vertical fields. 2V MAG-Displays two vertical fields, magnified 20 times ±10%. **Linearity:** ±3%. **Sweep Length:** 12 ±0.7 div in 2V mode. **Line Selector:** Field 1 or Field 2, Line 13 to Line 22. **Blanking Signal Output:** (BNC jack on rear panel), Period of Selected Line: 0.V. Period of Unselected Lines: -2V. **RGB/YRGB:** RGB standard convertible to YRGB. **CALIBRATOR: Amplitude:** 1V±1%. **Frequency:** 2 cycles with 2H sweep. **CRT Type:** 6" rectangular tube internal graticule. **POWER REQUIREMENTS: Voltage:** 100, 120, 220, or 240 VAC ±10%. **Frequency:** 50/60 Hz. **Power Consumption:** 50 watts. **Dimensions:** (HWD) 5-3/4" x 8-1/2" x 17-1/2" includes all protrusions. **Weight:** 16 lb. **Optional Rack Mount Adaptor** RM-25...$150.00

B&K PRECISION NTSC VECTORSCOPE

NEW!

MODEL 1270 REG. $1995.00 OUR PRICE $1695.00

FEATURES

- Half-rack design. • 12 kV accelerating voltage for bright, crisp display. • Illuminated, internal graticule.
- Selectable, loop-through or 75 ohm terminations for A, B and ext CW input. • Gain control with UNCAL LED.
- Selectable external or internal subcarrier. • 75% or 100% switchable color saturation.
- Z axis input terminal for blanking to measure VITS and VIRS.

APPLICATIONS

Displays phase and amplitude of NTSC composite video signals...designed for professional video applications such as television transmitting, video studios, video signal distribution centers, cable television installations, CCTV networks, large MATV networks, video product design laboratories, and video product manufacturing and testing facilities.

SPECIFICATIONS

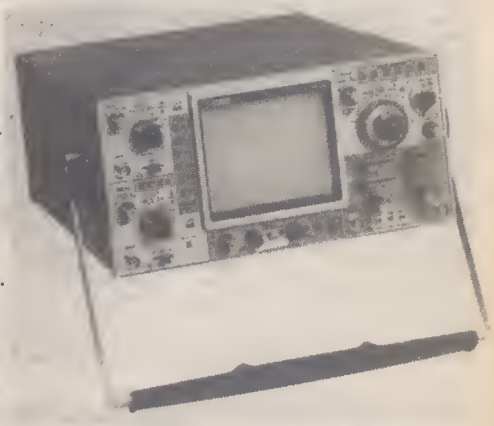
CRT Type: 6" rectangular tube, PDA. **Acceleration Voltage:** 12kV. **Graticule:** Internal, multiple scale. **Circle:** 80mm, diameter, scaled in degrees. Radius represents 100% IRE amplitude. **NTSC Color Bar:** Scaled for each NTSC color bar. **Crosshair:** Calibration reference. **Inner Perimeter:** Amplitude ±2.5% IRE, Phase ±2.5°. **Outer Perimeter:** Amplitude ±20% IRE, Phase ±10° **Burst Axis:** Calibration reference scaled for 75% and 100% saturation modes. **SENSITIVITY: Calibration Value (Input A and B):** Selectable 75% or 100% color saturation. **Amplitude:** 1V p-p full scale for 75%. 1.24V p-p full scale for 100%. **Variable Range:** 0.5 to 5 times calibrated value. **EXT CW:** 2V p-p ±6 dB. **CHROMA: Bandwidth:** 3.579545 MHz ±500 kHz. **Accuracy: Phase Shift:** ±2 degrees. **Amplitude:** ±3%. **Differential Phase:** ±1 degree. **Differential Gain:** ±1%. **VECTOR MEASUREMENT: Color Saturation:** 75% or 100%. **Other:** Phase and amplitude or chroma signal. **SYNC: Horizontal Source:** Horizontal sync signal of composite video input from input A or B. **POWER REQUIREMENTS: Voltage:** Selectable 100, 120, 220, 240 VAC ±10% 50/60 Hz. **Power Consumption:** 45 Watts. **ENVIROMENTAL: Operating Temperature:** 0 to 40°C, 80% or less RH: specifications apply 10 to 35°C. **Storage Temperature:** -20 to +60°C. **Dimensions: (HWD)** 5-3/4" x 8-1/2" x 17-1/2". **Weight:** 16 lbs.

B&K PRECISION

150 MHz, DUAL INDEPENDENT TIME BASE QUAD INPUT OSCILLOSCOPE

NEW!

MODEL 1596 REG. $2095.00 OUR PRICE $1795.00



FEATURES

- 1 mV sensitivity to full bandwidth. • 500 uV/div cascade sensitivity to 70 MHz. • 23 calibrated sweeps. • 20 kV accelerating voltage.
- Rectangular CRT with internal graticule and scale illumination. • V Mode - displays four signals unrelated in frequency.
- Alternate timebase operation. • Signal delay line. • 20 MHz bandwidth limiter. • Lighted pushbutton function switching.
- Voltage and current probe calibrators. • Video sync separators. • Channel 1 output. • 2% vertical and horizontal sweep accuracy.

DESCRIPTION

The B&K PRECISION Model 1596, 150 MHz, quad input eight trace oscilloscope brings high performance standards and a vast array of features into one efficient package.

High Brightness CRT All signals are displayed on a high brightness domed mesh rectangular CRT with 20 kV accelerating potential, internal graticule with full 8 x 10 div., and illuminated graticule.

For applications requiring extremely high single-channel sensitivity, the 1596 provides 500 uV vertical sensitivity in cascade operation. The channel 1 vertical amplifier output is connected to the channel 2 input in this mode.

Dual Independant Time Base. When in the DUAL Mode, the 1596 provides independent operation of the A Sweep and B Sweep circuits. In the mode of operation the A Sweep is operated by the A trigger section and the B Sweep is operated by the B trigger section. Dual independent time base operation allows the 1596 to act like two 150 MHz oscilloscopes and to display signals unrelated in time with their own independent trigger sections. An example of this is to use channels 1 and 3 in conjunction with the A time base and channels 2 and 4 with the B time base.

Four Input Channels. A significant feature that sets the 1596 apart from other scopes in its price class is four input operation. The most common application for quad display is to use channels 3 and 4 to display the external triggering signals applied to channels 1 and 2. Another useful application of the four channel inputs is to display four digital signals. For example, in analyzing a digital circuit or microprocessor-based circuit controlled by one time base, digital signals can be observed at four circuit points simultaneously. When operated in the "V-mode," four signals not related in frequency can be displayed in-sync simultaneously. Any of the four channels can be displayed or deleted. For channels 1 and 2, the vertical input attenuator offers ten ranges in the conventional 1-2-5 sequence, with vernier provided. As channels 3 and 4 are intended for supplemental use, two position vertical input attenuators are provided.

Full Delayed-Sweep. In delayed-sweep operation, the delayed signal can be viewed as a second trace or superimposed on the non-delayed signal. Dual intensity controls are provided for the delayed and original time-base signals. The sweep range for time base A is calibrated from 20 ns/div to 0.5 s/div in 23 steps; time base B covers 20 ns/div to 50 ms/div in 20 steps. The sweep vernier provides continuously variable adjustment between the 1-2-5 sequence time base steps. An additional X10 sweep magnifier is also featured.

20 MHz Bandwidth Limiter. While the 1596 is ready to handle signals up to 150 MHz, B&K PRECISION engineers realize that often, many signals observed are under 20 MHz. For that reason, a selectable 20 MHz bandwidth limiter circuit was designed into the 1596. When activated, this circuit restricts -3dB bandwidth to 20 MHz filtering out extraneous signals at higher frequencies.

Rear-Panel Output Jack. For simultaneous frequency measurement of signals observed on the 1596, a buffered rear-panel output jack is included to interface with a conventional frequency counter. With an impedance of 50 ohms, this convenient output eliminates the need to use a T adaptor or to buy costly frequency counter/oscilloscope combinations.

Lighted Push-Button Function Switching. All function switching on the 1596 is performed by soft touch, lighted pushbuttons that control full-logic switching circuits. When a touch-sensitive function button is activated, a red LED illuminates it. This unique design provides a positive display of the operation selected. Also, the switch position is maintained in memory when the power is off by a separate battery power source.

Other features include a beam finder button, LED UNCAL indicators, single sweep operation, variable hold-off as well as alternate or chop operation with two selectable chop frequencies. Probe calibrators for both current and voltage probes are included. A and B gate outputs are provided on the rear panel, supplying gating pulses from the A and B time bases for interface with external circuits.

B&K OSCILLOSCOPES

B&K PRECISION 60 MHz TRIPLE TRACE OSCILLOSCOPE

MODEL 1560 **REG. $1150.00** **OUR PRICE $899.95**

$70 *FACTORY REBATE EXPIRES 12-31-85*

FEATURES

- 1 mV/div sensitivity.
- 22 calibrated sweeps.
- Rectangular CRT with internal graticule and scale illumination.
- Signal delay line.
- Video sync separators.
- X-Y operation.
- Z axis input.
- 16 kV accelerating voltage.
- X10 sweep magnification.
- Delayed sweep/dual time base.
- Single sweep.
- Auto focus.
- V mode—displays two signals unrelated in frequency.
- Sum & difference capability.
- Channel 1 output.
- Includes probes.

DESCRIPTION

The B&K Precision Model 1560, 80 mHz triple trace oscilloscope is a dual time base, delayed sweep unit that includes a built-in signal delay line to permit clear viewing of information appearing during the very short rise times of high frequency waveforms.
In addition, the variable trigger holdoff feature permits stable observation of complex pulse trains.
The user can select from 22 calibrated sweep time ranges—0.5 s/div to 0.05 µS/div. Sweep time is fully adjustable between calibrated ranges.
To allow closer examination of waveforms, a X10 sweep magnification feature is provided.
Model 1560 incorporates an FIX trigger mode that automatically sets the trigger threshold at the center of the waveform.
The versatile triggering circuitry offers five trigger sources: CH1, CH2, LINE, EXTernal, and V MODE.
In V MODE each waveform displayed becomes its own trigger thereby allowing steady display of three signals unrelated in frequency.
Other features include front panel X-Y operation, Z axis input, Channel 1 output on rear panel for driving frequency counter or other instruments, sum and difference capability of Channel 1 and Channel 2 waveforms displayed as a single trace, sweep gate and sweep output, auto focus, and single sweep for viewing and photographing one-time events.

SPECIFICATIONS

VERTICAL AMPLIFIERS—(CH1 and CH2): **Deflection Factor:** 1 mV/div to 5 V/div, ±3%, in 12 steps, 1-2-5 sequence with vernier adjustment. **Frequency Response:** 1 mV/div., 2 mV/div.—DC: DC to 20 mHz, —3 dB. AC: 5 Hz to 20 mHz, —3 dB. 5 mV/div to 5 V/div.—DC: DC to 80 mHz, —3 dB. AC: 5 Hz to 60 mHz, —3 dB. **Rise Time:** 5.8 ns or less. (60 mHz). 17.5 ns or less (20 mHz). **Input Impedance:** 1 Mohm ±2% approx. 20 pF. **Maximum Input Voltage;** 500 Vp-p or 250 V (DC + AC peak). **Maximum Non-Distorted Amplitude:** More than 8 div., DC to 60 mHz. CH3—**Deflection Factor:** 0.1 V/div and 1 V/div. ±3%. **Frequency Response:** DC: DC to 80 mHz, —3 dB. AC: 5 Hz to 60 mHz, —3 dB. **Rise Time:** 5.8 ns or less. **Input Impedance:** 1 Mohm ±2%, approx. 27 pF. **Maximum Input Voltage:** 50 V (DC + AC peak). **Operating Modes:** CH1—Single Trace. CH2—Single Trace. ADD—CH1 + CH2 Single Trace. DUAL—CH1 and CH2, Dual Trace. TRIPLE—CH1, CH2, CH3, triple trace. ALT—Dual or triple trace, alternating sweep. CHOP—Dual or triple trace, chopped sweep. **Chop Frequency:** Approx. 250 kHz. **Channel Polarity:** Normal or inverted, channel 2 only inverted. **Crosstalk:** —40 dB minimum. **Signal Delay Time:** Approx. 20 ns on the CRT screen. **SWEEP SYSTEM—Mode:** NORM—Triggered sweep. AUTO—Sweep free runs in absence of trigger. FIX—Same as AUTO except trigger level is automatically fixed at center of waveform. SINGLE—Permits viewing and photographing of onetime events. **Sweep Time:** A—0.05 µs/div to 0.5 s/div, ±3% in 22 ranges, in 1-2-5 sequence with vernier adjustment. B—0.05 µs/div to 50 ms/div., in 19 ranges, in 1-2-5 sequence. **Sweep Magnification:** X10, ±5%. Extends max. sweep rate to 5 ns/div. **Linearity:** ±3% all ranges. ±5% on 0.05 µs/div to 0.1 µs/div ranges at X10 magnification. **Holdoff:** Continuously variable (NORM to greater than 10X). **Trace Separation:** Continuously variable, up to 4 divisions. **Delay Method:** Continuous (Starts after delay), Trigger, Zero (delay time zero). **Delay Time:** Continuously adjustable (500 ns to 0.5 s), 0.2 to 10 times the A sweep time setting. **Delay Jitter:** 1/20000 of times of A sweep time setting. **TRIGGERING—Source:** V MODE—Trigger selected by vertical MODE switch. CH1—Triggered by CH1 signal. CH2—Triggered by CH2 signal. CH3/EXT—Triggered by CH3 signal. LINE—Triggered by line voltage. **Coupling:** AC, HFrej; DC, VIDEO Frame, VIDEO Line. **Automatic:** Sweep is obtained without an input signal. **Normal:** Sweep is not obtained without an adequate trigger signal. **Fix:** Sweep is obtained without an input signal. Trigger threshold is automatically set at center of trigger signal. **Single:** Single sweep operation. **Slope:** Sweep can be set to trigger on the positive or negative going slope on the trigger waveform. **Level:** Fully adjustable. **Video Sync:** Vertical and horizontal sync separator circuitry allows any portion of complex video waveform to be synchronized and expanded for viewing. **Video Line**—horizontal sync pulses are selected as triggers. **Video Frame**—vertical sync pulses are selected as triggers. **Sensitivity:** DC—DC-60 mHz, 1 div. internal or 0.1 Vp-p external. AC—20 Hz-60 mHz: 1 div internal or 0.1 Vp-p external. **EXTERNAL TRIGGER INPUT—Maximum Input Voltage:** 50 V (DC + AC peak). **Input Impedance:** 1 Mohm ±2%, approx. 28 pF. **HORIZONTAL AMPLIFIER—Deflection Factor:** Same as vertical amp (CH2). **Frequency Response:** DC: DC to 2 mHz, —3 dB. AC: 5 Hz to 2 mHz, —3 dB. **Maximum Input Voltage:** Same as vertical amp (CH2). **X-Y Operation:** Operating mode selectable with HORIZ DISPLAY switch. CH1 = Y axis, CH2 = X axis. **Power Requirements:** 100/120/220/240 VAC ±10%, 50/60 Hz, approx. 65W. **Dimensions (WHD):** 11.97 x 6.3 x 15.8" (304 x 160 x 410mm). **Weight:** 24.2 lbs. (11 kg.). **Accessories supplied with Oscilloscope:** Two 10:1 probes.

B&K PRECISION 40 MHz DUAL TRACE OSCILLOSCOPE

MODEL 1540 **REG. $950.00** **OUR PRICE $799.95**

$60 *FACTORY REBATE EXPIRES 12-31-85*

FEATURES

- 1 mV/div sensitivity. •21 calibrated sweeps. •Rectangular CRT with internal graticule and scale illumination. •Signal delay line.
- Video sync separators. •X-Y operation. •Z axis input. •12 kV accelerating voltage. •X10 sweep magnification.
- Delayed sweep/dual time base. •Single sweep. •Auto focus. •V mode—displays two signals unrelated in frequency.
- Sum & difference capability. •Channel 1 output. •Includes probes.

DESCRIPTION

The B&K Precision Model 1540, 40 mHz dual trace dual time base, delayed sweep oscilloscope includes features used in a wide range of service, design and industrial applications. The user can select from 21 calibrated sweep time ranges—0.5 s/div to 0.1 uS/div. Sweep time is fully adjustable between calibrated ranges. To allow closer examination of waveforms, a X10 sweep magnification feature is provided. A built in signal delay line allows viewing of the leading edge of high frequency and fast risetime pulses. In addition, the variable trigger holdoff feature permits stable observation of complex pulse trains. Model 1540 incorporates an FIX trigger mode that automatically sets the trigger threshold at the center of the waveform. The V MODE triggering feature permits steady display of two signals unrelated in frequency. Other features include front panel X-Y operation, Z axis input, Channel 1 output on rear panel for driving frequency counter or other instruments, sum and difference capability of Channel 1 and Channel 2 waveforms displayed as a single trace, sweep gate and sweep output, auto focus, and single sweep for viewing and photographing one-time events.

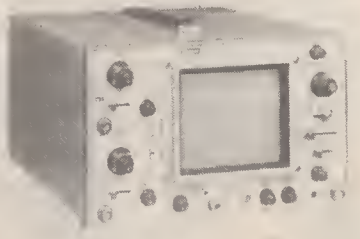
SPECIFICATIONS

VERTICAL AMPLIFIERS—(CH1 and CH2): **Deflection Factor:** 1 mV/div to 5 V/div, ±3%, in 12 steps, 1-2-5 sequence with vernier adjustment. **Frequency Response:** 1 mV/div., 2 mV/div.—DC: DC to 15 mHz, —3 dB. AC: 5 Hz to 15 mHz, —3 dB. 5 mV/div to 5 V/div.—DC: DC to 40 mHz, —3 dB. AC: 5 Hz to 40 mHz, —3 dB. **Rise Time:** 8.8 ns or less. (40 mHz). 23.4 ns or less (15 mHz). **Input Impedance:** 1 Mohm ±2% approx. 20 pF. **Maximum Input Voltage;** 500 Vp-p or 250 V (DC + AC peak). **Maximum Non-Distorted Amplitude:** More than 8 div., DC to 40 mHz. **Operating Modes:** CH1—Single Trace. CH2—Single Trace. ADD—CH1 + CH2 Single Trace. DUAL—CH1 and CH2, Dual Trace. ALT—Dual Trace, alternating sweep. CHOP—Dual Trace, chopped sweep. **Chop Frequency:** Approx. 250 kHz. **Channel Polarity:** Normal or inverted, channel 2 only inverted. **Crosstalk:** 40 dB minimum. **Signal Delay Time:** Approx. 20 ns on the CRT screen. **SWEEP SYSTEM—Mode:** NORM—Triggered sweep. AUTO—Sweep free runs in absence of trigger. FIX—Same as AUTO except trigger level is automatically fixed at center of waveform. SINGLE—Permits viewing and photographing of onetime events. **Sweep Time:** A—0.1 us/div to 0.5 s/div, ±3% in 21 ranges, in 1-2-5 sequence with vernier adjustment. B—0.1 us/div to 50 ms/div., in 18 ranges, in 1-2-5 sequence. **Sweep Magnification:** X10, ±5%. Extends max. sweep rate to 10 ns/div. **Linearity:** ±3% all ranges. ±5% on 0.05 us/div to 0.1 us/div ranges at X10 magnification. **Holdoff:** Continuously variable (NORM to greater then 10X). **Trace Separation:** Continuous adjustable, up to 4 divisions. **Delay Method:** Continuous (Starts after delay), Trigger, Zero (delay time zero). **Delay Time:** Continuously adjustable (500 ns to 0.5 s), 0.2 to 10 times the A sweep time setting. **Delay Jitter:** 1/20000 of ten times of A sweep time setting. **TRIGGERING—Source:** V MODE—Trigger selected by vertical MODE switch. CH1—Triggered by CH1 signal. CH2—Triggered by CH2 signal. EXT—Triggered EXT TRIG signal. LINE—Triggered by line voltage. **Coupling:** AC, HFrej; DC, VIDEO Frame, VIDEO Line. **Automatic:** Sweep is obtained without an input signal. **Normal:** Sweep is not obtained without an adequate trigger signal. **Fix:** Sweep is obtained without an input signal. Trigger threshold is automatically set at center of trigger signal. **Single:** Single sweep operation. **Slope:** Sweep can be set to trigger on the positive or negative going slope on the trigger waveform. **Level:** Fully adjustable. **Video Sync:** Vertical and horizontal sync separator circuitry allows any portion of complex video waveform to be synchronized and expanded for viewing. **Video Line**—horizontal sync pulses are selected as triggers. **Video Frame**—vertical sync pulses are selected as triggers. **Sensitivity:** DC—DC-40 mHz, 1 div. internal or 0.1 Vp-p external. AC—20 Hz-40 mHz: 1 div internal or 0.1 Vp-p external. **EXTERNAL TRIGGER INPUT Maximum Input Voltage:** 50V (dc + ac peak). **Input Impedance:** 1 M ohm, approx. 27 pF. **HORIZONTAL AMPLIFIER** (Input thru CH2, X10 MAG not included)—**Deflection Factor:** Same as vertical amp (CH2). **Frequency Response:** DC—DC: to 2 mHz, —3 dB. AC: 5 Hz to 2 mHz, —3 dB. **Input Impedance:** Same as vertical amp (CH2). **Maximum Input Voltage:** Same as vertical amp (CH2). **X-Y Operation:** Operating mode selectable with HORIZ DISPLAY switch. CH1 = Y axis, CH2 = X axis. **X-Y Phase Difference:** 3° or less at 100 kHz. **Dimensions (WHD):** 11.97 x 6.3 x 15.8", (304 X 180 X 401mm) **Weight:** 24.2 lbs. (11 kg.). **Accessories supplied with Oscilloscope:** Two 10:1/direct probes.

B&K PRECISION 20 MHz DUAL TRACE TRIGGERED SWEEP OSCILLOSCOPE

MODEL 1522 **REG. $695.00** **OUR PRICE $569.95**

$50 *FACTORY REBATE EXPIRES 12-31-85*



SPECIAL!

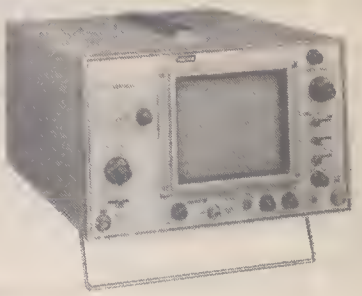
FEATURES

- 1 mV/div sensitivity. • 20 calibrated sweeps. • Rectangular CRT with internal graticule and scale illumination.
- Video sync separators. • X-Y operation. • Z axis input. • 8 kV accelerating voltage. • X10 sweep magnification.
- Auto sweep. • V mode—displays two signals unrelated in frequency. • Sum & difference capability.
- Channel 1 output. • Includes 2—10:1 direct probes, Spare fuses 2—0.8A, 2—0.5A, Instruction manual.
- Power Req: 100/120/220/240 VAC ±10%, 50/80 Hz approx. 43 W. • Dimensions: (WxHxD) 10-1/4" x 7-1/8" x 18-1/8". • Weight: 19-1/2 lbs.

DESCRIPTION

The B&K Precision Model 1522, 20 mHz dual trace oscilloscope is a lab scope built for the demands of industry. With 1 mV/div vertical sensitivity (to 10 mHz) and conservatively rated 20 mHz bandwidth, the 1522 easily surpasses most industrial needs. The user can select from 20 calibrated sweep time ranges—0.5 s/div to 0.2 uS/div. Sweep time is fully adjustable between calibrated ranges. To allow closer examination of waveforms, a X10 sweep magnification feature is provided. Model 1522 incorporates an AUTO sweep feature that provides sweep without trigger input and automatically reverts to triggered sweep operation when an adequate trigger signal is applied. The versatile triggering circuitry offers five trigger sources: CH1, CH2, LINE, EXTernal, and V MODE. In V MODE, each waveform displayed becomes its own trigger thereby allowing steady display of two signals unrelated in frequency. Other features include front panel X-Y operation, Z axis input, Channel 1 output on rear panel for driving frequency counter or other instruments, sum and difference capability of Channel 1 and Channel 2 waveforms displayed as a single trace, and VIDEO SYNC selectable FRAME or LINE triggering for observing composite waveforms.

B&K PRECISION 10 MHz SINGLE AND DUAL TRACE OSCILLOSCOPES



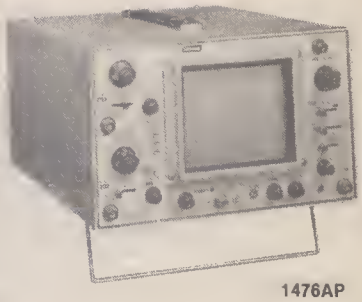
1466AP

MODEL 1466AP
REG. $475.00 OUR PRICE **$399.95**

$30 *FACTORY REBATE EXPIRES 12-31-85*

MODEL 1476AP
REG. $545.00 OUR PRICE **$459.95**

$40 *FACTORY REBATE EXPIRES 12-31-85*



1476AP

FEATURES 1466AP/1476AP
- 1 mV/div sensitivity. •19 calibratad sweep ratas. •Rectangular CRT with internal graticule. •Video sync separators.
- X-Y operation. •Z axis input. •X10 sweep magnification. •Auto Sweep. •Elactronic trace rotation. •Includes probes.
- Accassorias: 10:1 diract probe (1-1466AP, 2-1476AP), spara fuses, instruction manual.

FEATURES 1476 (only)
- Dual trace. •Sum and differenca capability. •Expandad internal triggering. •V Mode—displays two signals unrelatad in frequency.

APPLICATIONS
Logic and digital design and troubleshooting...check divider natworks of any system using TTL, CMOS, and most ECL logic... Display characters directly from TTL driva aquipment...Use Video (Line) and Vidao (Frame) circuits to monitor video and accurately sat sync, video and color burst lavels, compare amplifier input/output wavaforms...lock in and expand Vertical Internal Test Signal (VITS) for viewing...display 'back porch' of horizontal sync with color burst information, automatically synchronized...accutately reproduca high fraquancy (3.58 mHz) color burst.

DESCRIPTION
The B&K Precision Model 1476AP (Dual Traca) and Model 1466AP (Singla Trece) provide excellent meesurament capability in the 10 mHz bandwidth. Tha Modal 1476AP, used in the singla trece mode, and tha Model 1466AP, can be used to measura DC voltage, peek-to-paak voltage, time, fraquency, pulsa width, ralative voltaga and relativa period. Duel traca measurements include time and phase diffarance; and allmination of an undesirad signal component through the usa of the difference mode. Both the 1476AP end 1466AP can be used in the X-Y moda for phase and fraquancy responsa measurements. All measuremant procadures ara explained in the instruction manual.

SPECIFICATIONS
VERTICAL AMPLIFIERS—(CH1 end CH2 on 1476AP) **Deflection Factor:** 1 mV/div to 5 V/div, ±3%, in 1-2-5 sequence, 12 eteps, with vernier adjustment. **Frequency Reeponee:** 1 mV/div—DC: DC to 7 mHz, —3dB; AC: 5 Hz to 7 mHz, —3 dB. 2 mV/div to 5 V/div—DC: DC to 10 mHz, —3dB; AC: 5 Hz to 10 mHz, —3dB. **Rlee Time:** 1 mV/div—50ns or less. 2 mV/div to 5 V/div—35 ns or less. **Overshoot:** 5% or less, 100 kHz squere wave. **Input Impedence:** 1 Mohm ±2% shunted by approx. 35 pF. **Maximum Input Voltage:** 500 Vp-p or 250 V (DC+AC peek). **Maximum Non-Dietorted Amplitude:** More than 6 div., DC to 10 mHz. **Opereting Modee (1476AP):** CH1—single trece. CH2—single trace. ADD—CH1+CH2 single traca. ALT—Dual trece, alterneta eweep. CHOP—dual trace, chopped sweep. **Chop Frequency (1476AP):** Approx. 250 kHz. **CH2 Polerity (1476AP):** Normel or inverted. **Croeeteik (1476AP):** —40 dB minimum. **SWEEP SYSTEM**—(Common to CH1 end CH2 on 1476AP). **Mode:** NORM—Triggarad sweep. AUTO—Swaep free runs in ebaance of trigger. **Sweep Time:** 0.5 us/div to 0.5 s/div, ±3% in 19 renges, 1-2-5 sequenca with vernier adjustmant. **Sweep Magnification:** X10, ±5%, increesas max. swaap rate to 50 ns/div. **Linearity:** ±3% all ranges. ±5% et X10 magnification. **TRIGGERING—Source (1476AP):** V MODE, CH1, CH2, LINE, EXT. **(1466AP):** INT, LINE, EXT. **Coupling:** AC, VIDEO Frame, Vidao Line. **Automatic:** Sweep is obtained without en input signal. **Normal:** Sweep le not obtained without an edequata triggar signal. **Slope:** Sweap can be set to triggar on the positive or negative going slope on the trigger weveform. **Level:** Continuously variable, saiecting trigger emplitude. **Video Sync:** Vertical and horizontel eync eeparetor circuitry allows eny portion of complex vidao wevaform to ba synchronized end expendad for viewing. VIDEO LINE—horizontel sync pulses era selected ae triggere-sweep time of .10 us/div. VIDEO FRAME—verticel sync pulses are selected es triggers-2 ms/div for viawing flaids of video, 5 ms/div for complete fremes. **Sensitivity:** AUTO—20 Hz to 10 mHz: 1 div. internel or 0.1 Vp-p external. NORM—5 Hz to 10 mHz: 1div. Intarnal or 0.1 Vp-p extarnel. VIDEO—FRAME or LINE: 1 div Intarnal or 0.1 Vp-p external. **EXTERNAL TRIGGER INPUT—Maximum Input Voltage:** 50 V (DC+AC peak). **Input Impedence:** 1 Mohm ±2%, epprox. 35 pF. **HORIZONTAL AMPLIFIER** (X10 MAG not included)—**Deflection Factor: 1476AP**—1 mV/div to 5 V/div, ±3%. **1466AP**—100 mV/div. X-Y **Operation:** X-Y mode aalactable with TRIG MODE switch. **1476AP**—CH1=Y axis, CH2=X exis. **1466AP**—VERT INPUT=Y axla. EXT TRIG INPUT=X axle. CRT—**Type:** Ractanguler with internal greticule. **Power Requirements:** 100/120/220/240 VAC ±10%, 50/60 Hz, epprox. 41W-1476AP, 37W-1466AP. **Dimenelone (WxHxD):** 10-1/4 x 6-3/8 x 15-3/4" (260 x 160 x 400mm). 10-1/4 x 7-1/6 x 16-1/8" (260 x 180 x 460mm) including all projectione. **Weight:** 1476AP 16-1/2 lbs., 1466AP 16 lbs.

B&K PRECISION DUAL-TRACE 5" 15 MHz TRIGGERED SWEEP SCOPE

MODEL 1477

REG. $595.00 OUR PRICE **$499.95**

FEATURES
- Automatically shifts between Chop and Alternata as swaep tima changas.
- Bright P31 phosphor.
- Flat in-band response.
- Maintains calibretion 105-130 VAC.
- Front panel X-Y operation.
- Algabreic eddition and subtraction.
- Differential input capability.
- 19 calibrated swaeps.
- Video sync separators.

SPECIFICATIONS
Vert. Amplifier: Sensitivity 10mV cm to 20 V cm., ±5% in 11 ranges. **Response:** DC, DC-15 mHz (—3 dB); AC, 2 Hz-15 mHz (—3 dB). **Rise Time:** 24 nsac. **Input Z:** 1M ohm/22 pF (±3 pF). **Mex. Input Voltage:** 300V, DC+AC peak or 600 V p-p. **Modee:** CH A, CH B duel trace (A and B). A+B (single-traca aum of A and B). A—B (single-trace difference of channels A-B). **Sweep:** Auto and triggared 0.5 usec/cm to 0.5sec/cm ±5% in 19 rangas. **Sweep Mag.:** 5X. **Triggering: Source:** CH A end CH B. 1 cm deflection min. Ext: 1 V p-p sans. **Slope:** Pos end nag. **Renge:** 20 Hz-15 mHz guar. 20 Hz-27 mHz typ. **Video Sync:** Vert. and horiz. sync seperetor. **Horiz. Amplifier:** (input thru CH B, vert. input) Sensitivity: 10mV cm., to 20V/cm. ±5% in 11 rengas. **Reeponee:** DC to 1 mHz (—3 dB): **Input Protection:** 300 VDC +AC peak or 600 V p-p. **General: Calibretion:** 1 kHz squere weva. **Z-Axle:** 20 V p-p min. **Probee:** Two 10:1/direct probes supplied. **Powar:** 115/230 VAC, 50/60 Hz, 23W; **CSA epproved three-wire line cord. Size:** HWD (16.4 x 25.3 x 36.9cm) (5-3/6 x 10-1/6 x 14-3/4"). **Weight:** 6.6 kg. (19.6 lbs.). **Optione:** LC-74 protectiva cover...$36.95

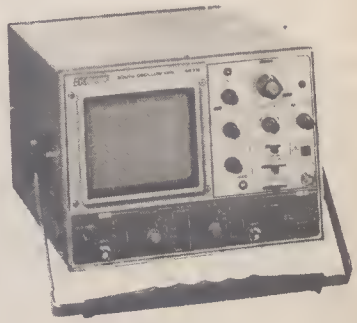
LC-133 carrying case...$65.55 availabla.

B&K PRECISION DUAL-TRACE 30 MHz SCOPE WITH SIGNAL DELAY

MODEL 1479B

REG. $795.00 OUR PRICE **$639.95**

SPECIAL!

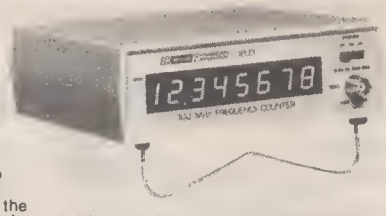


FEATURES
- Rise tima 11.7 nS.
- —6 dB at 49 mHz typical.
- Built-in AM detector.
- Built-in high and low pass filters.
- 20 calibratad sweeps—0.2uS/cm/0.5S/cm.
- Differeintal input capability.
- Algabraic addition and subtraction.
- 5 mV/cm vertical sensitivity.
- Rectangular CRT.

SPECIFICATIONS
Vert. Amplifier: Sanaitivity: mV/cm to 5V/cm., ±3% **Reeponee:** DC, DC-30 mHz (—3 dB); AC, 10 Hz-30 mHz (—3 dB). **Rise Time:** 11.7 ns. **Overshoot:** 3% or iass. **Max. Input Voltage:** 300V, DC+AC peek or 600 V p-p. **Modee:** CH A, CH B dual, edd, subtract, eit 0.2uS/cm-0.5 mS/cm. Chop 1 mS/cm-0.5 S/cm. **Chop Freq.:** 200 kHz ±20%. **Signel Delay:** Fixed-12 nS. **Sweep Time:** 0.2uS/cm-0.5 S/cm ±3% in 20 cel. staps with vernier. **Sweep Mag:** 5X ±5%. **Linearity:** 3% or bettar. **Triggering: Source:** Int, CH A, CH B, and Ext; AM DET. **Slope:** Pos or neg. **Coupling:** AC, DC, LF raject, HF raject. **Horiz. Amplifier:** (input thru CH B vert. input). **Sensitivity:** 5 mV/cm. **Reeponee:** DC-2 mHz (—3 dB). **Input Z:** 1 Mohm, 22 pF (±3 pF). **Input Protection:** 300 VDC+AC paak or 600 Vp-p. **General: Calibretion:** 0.5 Vp-p ±1% (square weve et 1 kHz ±10%). **CRT:** PDA, P31 phosphor. **Z-exie:** +5V (TTL compatible). DC-5 mHz. **Power:** 115/230 50/60 Hz 25W. CSA approved. **Size:** HWD (18.4 x 25.3 x 36.9cm) (7-3/8 x 10-1/6 x 14-3/4"). **Weight:** 6.6 kg. (19.8 lbs). **Probee:** Two 10:1/direct probas includad. **Optione:** LC-74 protactiva cover...$36.95 LC-133 cerrying casa...$65.55.

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

B&K PRECISION 100 MHz FREQUENCY COUNTER



MODEL 1803 REG. $169.00 OUR PRICE $144.50

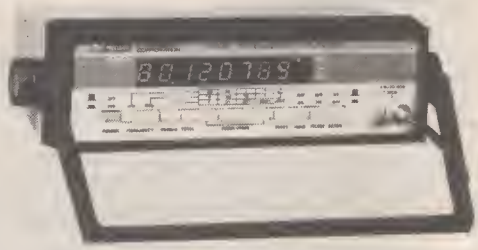
FEATURES

- 5 Hz to 100 MHz range. •8 digit LED display. •Leading zero blanking. •Low pass filter. •BNC Connector input.
- Overflow indicator. •Battery or AC powered. •Charger/AC Adaptor included with Model 1803.
- Dimensions: (HxWxD) 2"x 6.5"x 6.75". •Weight: approx. 24 oz.

DESCRIPTION

The B&K-PERCISION Model 1803 100 MHz frequency counter provides accurate measurement at an economical price. Designed to operate on both battery and AC power, the Model 1803 meets a wide range of "in-the-field" and "on-the-bench" applications. Data readouts are displayed with leading zero blanking on the 8 digit LED display. On OVERflow indicator lights whenever the range of the display (99.999999 MHz) is exceeded. To provide reliable low frequency counting by reducing the effects of high frequency noise, a front panel switchable 100 kHz low pass filter is incorporated in the counter. Input for all measurements is through a front panel mounted female BNC connector (1 M ohm, less than 40 pF). An AC adaptor/charger is included with Model 1803. The unit can also be powered by six user-installed "AA" batteries (Alkaline or NiCAD) or DC source (7.5—10 V DC at 400 mA).

B&K PRECISION 80 MHz MULTIFUNCTION COUNTER



MODEL 1805 REG. $290.00 OUR PRICE $246.50

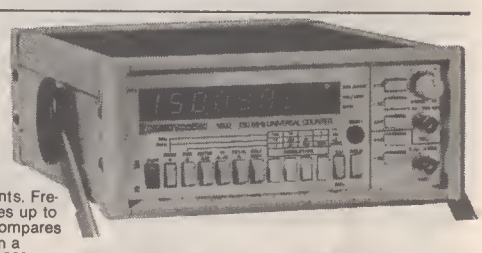
FEATURES

- 5 Hz to 80 MHz range. •Frequency, period, period average and totalize functions. •Selectable resolution.
- 8 digit LED display. •Switchable X1/X10 input attenuator. •Switchable low pass 100 kHz filter.
- Display hold and reset feature. •Dimensions: (HxWxD) 3.25 x 11.57 x 7.5". •Weight: 2.75 lbs.

DESCRIPTION

The B&K Precision Model 1805 Multi-Function counter provides frequency, period and totalized measurements. Frequency is measured from 5 Hz to 80 MHz. Resolution may be selected from .1 Hz for frequencies below 10 MHz to 1 Hz resolution for frequencies up to 80 MHz. The period mode can be used to more accurately measure low frequencies from 5 Hz to 2 MHz. The totalize mode is used to count individual events at 5 Hz to 10 MHz rates. This mode is helpful in applications where a specific number of cycles occurs, such as gated tone bursts. To provide reliable low frequency counting by eliminating high frequency components, a front panel switchable 100 kHz low pass filter is incorporated in the counter. All operating modes, resolution ranges and functions are front panel selectable. Model 1805 incorporates a switchable X10 attenuator, HOLD switch to freeze the display at the present reading, and a RESET switch to clear the display and initiate a new measurement. A 10 MHz time base generated by a crystal controlled oscillator provides good stability with regard to temperature (better than .001% ± 10pmm-0°C—50°C) and line voltage variations (less than 1ppm with ± 10% line voltage variation). Data readouts are displayed with automatic decimal point placement and leading zeros blanking on the 8 digit LED display. LED indicator lights annunciate kHz, MHz, uSEC and overflow modes. Input impedance is 1 Mohm (less than 40 pF) through a standard BNC connector located on the front panel. Model 1805 operates on 108 to 132 VAC, 60 Hz or 100V, 120V, 220V, 240 VAC 50/60 Hz with internal pc jumpers. Model 1805 includes power cord, instruction manual.

B&K PRECISION 175 MHz UNIVERSAL COUNTER



MODEL 1822 REG. $450.00 OUR PRICE $382.50

FEATURES

- 5 Hz to 175 MHz range. • Frequency, period, period average, totalize, frequency ratio, and time interval functions.
- Selectable resolution. • 8 digit LED display. • Self-test mode. • Trigger level and slope switch signal controls.
- Switchable low pass 10 kHz filter. • Switchable X1/X10 input attentuator. • Display hold and reset feature.
- Dimensions: (HWD) 3.75"x 9.5"x 12.6". • Weight: 5.6 lbs.

DESCRIPTION

The B&K-PRECISION Model 1822 Universal Counter provides frequency, period, frequency ratio, time interval, and totalize measurements. Frequency is measured from 5 Hz to 175 MHz. Resolution may be selected from .1 Hz to frequencies below 10 MHz to 1 Hz for frequencies up to 175 MHz. The period mode can be used to more accurately measure low frequencies from 5 Hz to 2 MHz. The frequency ratio mode compares the frequencies of two input signals and displays their ratio. In the time interval mode, the counter measures the elapsed interval from a selected edge of one input signal to a selected edge of another. The totalize mode is used to count individual events from 0 to 99,999,999 plus overflow LED. The counting process can be gated, either manually by a front panel switch, or by a gating signal applied to a rear panel jack, for more exact electronic control. A self test mode is also provided to enable a quick check of several facets of instrument operation. Signal conditioning controls include edge selectors and selectable X10 attenuator for both channels and a 10 kHz low-pass filter and variable threshold control for Channel A. All operating modes, resolution ranges and functions are front panel selectable. Model 1822 also incorporates a HOLD switch to freeze the display at the present reading and a RESET switch to clear the display and initiate a new measurement. A 10 MHz time base generated by a crystal controlled oscillator provides a good stability with regard to temperature (± 10 ppm, 0°C to 50°C) and line voltage variation (± 1 ppm, for 10% variation). Model 1822 operates on 108 to 132 VAC, 60 Hz or 100/120/ 220/240 VAC all ±10% set by internal PC jumpers, 50/60 Hz 20 Vac.

B&K PRECISION 520 MHz MULTIFUNCTION COUNTER

MODEL 1851 REG. $575.00 OUR PRICE $489.00

FEATURES

- 5 Hz to 520 mHz range. • Frequency, period, period average, and totalize functions. • Selectable resolution.
- 8 digit LED display. • Low pass filter. • Display hold. • Switchable X1/X10 attenuator. • Remote start-stop.

DESCRIPTION

The B&K Precision Model 1851 multifunction counter provides frequency, period, period average and totalize measurements. Frequency is measured from 5 Hz to 520 mHz. Resolution may be selected from .1 Hz for frequencies below 10 mHz, 1 Hz resolution to 80 mHz, and 10 Hz resolution to 520 mHz. The period mode can be used to more accurately measure low frequencies from 5 Hz to 2 mHz. The totalize mode is used to count individual events from 0 to 99,999,999 plus overflow LED. The counting process can be gated, either manually by a front panel switch, or by a gating signal applied to a rear panel jack, for more exact electronic control. All operating modes, resolution ranges and functions are front panel selectable. Model 1851 incorporates a switchable X10 attenuator, HOLD switch to freeze the display at the present reading, and a RESET switch to clear the display and initiate a new measurement. To provide reliable low frequency counting by eliminating high frequency components, a front panel switchable 100 kHz low pass filter is incorporated in the counter. A 10 mHz time base generated by a temperature-compensated crystal oscillator (TCXO) provides exceptional stability with regard to temperature (±1ppm, 0°C to 50°C) and line voltage variation (0.1ppm for 10% variation). Date readouts are displayed with automatic decimal point placement and leading zero blanking, on the 8 digit LED display. LED indicator lights annunciate kHz, mHz, uSEC, GATE, and overflow modes. The Model 1851 features a special 50 ohm terminated input for use in high frequency systems (UHF), as well as a standard 1 Mohm input for frequency measurements to 80 mHz. Model 1851 operates on universal AC power capability 100V, 120V, 220V, 240V (all ±10%), 21W, 50/60 Hz, set by internal PC jumpers.

TIME BASE CHARACTERISTICS

Standard Type: TCXO (temperature compensated crystal oscillator). **Frequency:** 10 mHz. **Setability:** ±0.1 ppm (±1 Hz). **Line Voltage Stability:** Less than ±0.1 ppm with ±10% line voltage variation. **Temperature Stability:** Less than ±.0001% (±1 ppm from 0°C to 50°C ambient). **Maximum Aging Rate:** ±1 ppm/year. **Power Requirements:** Universal AC, 100, 120, 200, 240 V all ±10%, 50/60 Hz, 21W set by internal PC jumpers. **Weight:** 5.31 lbs. **Dimensions:** (HWD) 3.75"x 9.5"x 12.6".

B&K PRECISION 1.2 GHz MULTIFUNCTION COUNTER

MODEL 1855 REG. $750.00 OUR PRICE $637.50

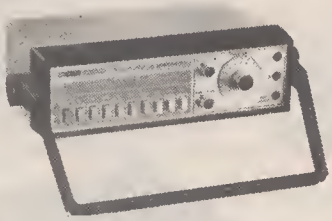
FEATURES

- 5 Hz to 1.2 GHz range. •Frequency, period, period average, and totalize functions. •Selectable resolution. •8 digit LED display.
- Low pass filter. •Display hold. •Switchable X1/X10 Attenuator. •Remote start-stop.
- Dimensions: (HxWxD) 3.75" x 9" x 12.6". Weight: 5.44 lbs.

DESCRIPTION

The B&K-PRECISION Model 1855 multifunction counter provides frequency, period, period average and totalize measurements. Frequency is measured from 5 Hz to 1.2 GHz. Resolution may be selected from .1 Hz for frequencies below 10 MHz, 1 Hz resolution to 80 MHz, and 10 Hz resolution to 1.2 GHz. The period mode can be used to more accurately measure low frequencies from 5 Hz to 2 MHz. The totalize mode is used to count individual events form 0 to 99,999,999 plus overflow LED. The counting process can be gated, either manually by a front panel switch, or by a gating signal applied to a rear panel jack, for more exact electronic control. All operating modes, resolution ranges and functions are front panel selectable. Model 1855 incorporates a switchable X10 attenuator, HOLD switch to freeze the display at the present reading, and a RESET switch to clear the display and initiate a new measurement. To provide reliable low frequency counting by eliminating high frequency components, a front panel switchable 100 kHz low pass filter is incorporated in the counter. A 10 MHz time base generated by a temperature-compensated crystal oscillator (TCXO) provides exceptional stability with regard to temperature (±1ppm, 0°C to 50°C) and line voltage variation (0.1ppm for 10% variation). Data readouts are displayed with automatic decimal point placement and leading zero blanking, on the 8 digit LED display. LED indicator lights annunciate kHz, MHz, uSEC, GATE, and overflow modes. The Model 1855 features a special 50 ohm terminated input for use in high frequency systems (UHF/microwave), as well as a standard 1M ohm input for frequency measurements to 80 MHz. Model 1855 operates on universal AC power capability 100V, 120V, 220V, 240V (all ±10%), 21W, 50/60 Hz, set by internal PC jumpers.

B&K PRECISION
LOW DISTORTION FUNCTION GENERATOR
MODEL 3010
REG. $239.00
OUR PRICE
$199.95



APPLICATIONS
- Frequency response tests.
- Amplifier performance evaluation.
- Bias signal source.
- Analog/digital signal substitution.
- Receiver alignment.
- Check linearity of test instruments.
- Check resonant circuits for ringing inductors.

FEATURES
- Generates sine, square and triangle waveforms.
- Variable amplitude and fixed TTL squarewave outputs.
- 0.1 Hz to 1 mHz in six ranges.
- Typical sine wave distortion under 0.5% from 0.1 Hz to 100 kHz.
- Variable DC offset for engineering applications.
- VCO external input for sweep-frequency tests.

SPECIFICATIONS
FREQUENCY
- Range: 0.1 Hz to 1 mHz in six renges. (Each range provides greater than 100:1 freq. control).
- Ext Control: Greater than 100:1 on any range with 0-5.5V input.
- Accuracy: 5% of f.s.
- Stability: .05% (after 15 min.).

SQUARE WAVE
- Symmetry: 99% to 100 kHz.
- Rise/Fall Time: Less than 100 ns.
- TTL Square Wave: Less than 25ns rise/fall time.

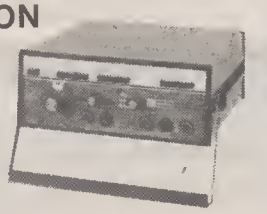
TRIANGLE WAVE
- Linearity: 99% to 100 kHz.

SINE WAVE
- Distortion: Less than 1% 0.1 Hz to 100 kHz; Less than 0.5% typical.
- Amplitude Flatness: Less than 0.3 dB to 1 mHz at max. output.

OUTPUT
- Amplitude: 20V p-p open circuit, 10V p-p into 600 ohm. Continuously variable, greater than 30 dB range.
- Output Z: 800 ohm ±5%.
- DC offset: Var. to max of ±10V open circuit or ±5V at 600 ohm.

GENERAL
- Operating Temp: 0-50°C.
- Power: 105-130 VAC, 60 Hz, 8W.
- Size (HWD): 8.1 x 29 x 20cm (3.2 x 11.3 x 7.8") incl. handle.
- Weight: 1.3 kg. (2.9 lbs.).
- CSA listed. 230V version available.

B&K PRECISION
SWEEP/FUNCTION GENERATOR
MODEL 3015
REG. $289.00
OUR PRICE
$240.00



FEATURES
- Frequency: 2 Hz to 200 kHz, in 3 ranges.
- Outputs: Sine, square or triangle.
- Variable Amplitude: 15 V p-p, open circuit; 7.5 V p-p into 600 ohms.
- Pulse Output: Fixed amplitude, TTL level, logic high greater than 3 volts.
- Accuracy: ±5% F.S., to 20 kHz.
- Sine Distortion: 1%, 2 Hz to 20 kHz.
- VCF: Approximately 0 to 1 input for 1000:1 frequency ratio.
- Internal Sweep: Linear or logarithmic.
- Internal Sweep Rate: 2.5 ms to 25 s.
- Operating Environment: 0° to 50°C.
- Power: Supplied with 120 VAC or 220 VAC adaptor.
- Size: 7-3/8" x 2-7/8" x 8-1/2" (187 x 73 x 216mm).
- Weight: 2 lbs. (0.9 kg).

There is no direct competition for the B&K-Precision Model 3015. Three factors combine to make it such a unique instrument:
- Three functions.
- Lin/log sweep.
- Low cost.

The 2 Hz to 200 kHz frequency range has traditionally been the domain of audio and signal generators with their limitation to sine—or at best—sine/square functions. Also, the most important function of this unit is its lin/log, adjustable rate, sweep function, which previously was available only on more costly function generators.

B&K PRECISION
SWEEP/FUNCTION GENERATOR
MODEL 3020
REG. $399.00
OUR PRICE
$339.95

FEATURES
- Sweep generator, function generator, pulse generator, tone-burst generator.
- Low distortion high-accuracy outputs.
- Internal linear and log sweeps.
- Programmable tone-burst output.
- Variable symmetry for almost eny wave shape.
- Most complete low frequency signal source in its price range.

SPECIFICATIONS
FREQUENCY
- Range: .02 Hz to 2 mHz (1000:1 freq. control).
- Ext Control: VCG range Greater than 1000:1 (linear) with 0-10V input.
- Accuracy: ±5% of f.s.
- Stability: .05% (after 15 min.).

SQUARE WAVE
- Variable/fixed TTL output.
- Symmetry: 99% to 100 kHz.
- Rise/Falf Time: Less than 100 ns.
- TTL Square Wave: Less than 25ns rise/fall time. (logic 0 less than 0.4V; logic 1 greater than 2.4V).

SINE WAVE
- Distortion: Less than 1% .02 Hz to 100 kHz; Less than 0.5% typical.
- Flatness: Less than ±0.3 dB to 2 mHz at max. output.

TRIANGLE WAVE
- Linearity: 99% to 100 kHz.
- Variable Symmetry: 40:1 range.

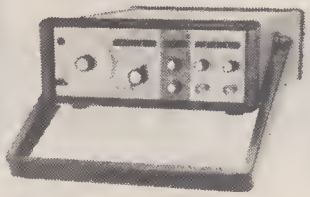
SWEEP
- Internal: Lin. or log.
- Rate: 0.5 Hz to 50 Hz.
- Width: Var. 10:1 to 1000:1.

TONE BURST
- Width: Adj. from 5-90% of period of int. gating freq. Ext. gating burst width det. by TTL gating pulse.
- Rep Rate: 0.5 Hz to 50 Hz

OUTPUT
- Amplitude: 20V p-p open circuit, 10V p-p at 50 ohm.
- Control: Cont. var. greater than 20 dB. Fixed, 0-40 dB in 3 steps; total 60 dB attenuation.
- Output Z: 50 ohm ±5%.
- DC offset: Cont. variable, 0 to ±10V or ±5V into 50 ohm.

GENERAL
- Operating Temp: 0-50°C.
- Power: 105-130 VAC, 60 Hz, 22W. Three-wire cord.
- Size (HWD): 8.1 x 29 x 20cm (3.2 x 11.3 x 7.8") incl. handle.
- Weight: 1.35 kg. (3.1 lbs.).
- CSA listed. 230V version available.

B&K PRECISION
SWEEP FUNCTION GENERATOR
MODEL 3025
REG. $475.00
OUR PRICE
$399.95



FEATURES
- Frequency: 0.005 Hz to 5 mHz in 7 ranges.
- Outputs: Sine, square, triangle or haversine.
- Variable Amplitude: 20 V p-p, open circuit; 10 V p-p, into 50 ohms.
- Accuracy: ±5% F.S.
- Sine Distortion: Less than 0.5%, 1 Hz to 100 kHz.
- VCF: Approximately 0 to 5 volts input for 1000:1 frequency ratio (linear).
- Internal Sweep: Linear or logarithmic.
- Sweep Rate: 10 ms to 1 min.
- Triggered Operation: Tone burst, single cycle and haversine.
- Sync Output: TTL compatible.
- Sweep Limits: Start and Stop controls for 4 decades log and 3 decades linear sweep; sweeps up or down.
- DC Offset: ±10 VDC (open circuit).
- V/f Output: 0 to 5 volts for 10,000:1 log sweep range.
- Sweep Output: 0 to 5 volt ramp.
- Power: 100/120/220/240 VAC, 50/60 Hz, 25 watts.
- Size: 8.3" x 3.5" x 11" (210 x 89 x 280mm).
- Weight: 5 lbs. (2.3 kg).

BK PRECISION
SWEEP FUNCTION GENERATOR
MODEL 3030-B
REG. $699.00
OUR PRICE
$595.00

FEATURES
- Frequency: 0.001 Hz to 5 mHz in 8 ranges.
- Outputs: Sine, square, triangle, pos/neg square, pos/neg ramp.
- Variable Amplitude: 20 V p-p, open circuit; 10 V p-p, into 50 ohms.
- Accuracy: ±(1.5% setting +1% F.S.), 0.001 Hz to 1 mHz; ±(2% setting +2% F.S.), 1 mHz to 5 mHz.
- Sine Distortion: Less than 0.5%, 1 Hz to 100 kHz.
- VCF: Approximately 0 to 5 volts input for 1000:1 frequency ratio (linear).
- Internal Sweep: Linear or logarithmic. Sweep limit set by precision Kelvin-Varley dividers.
- Sweep Rate: 10 ms to 100 s.
- Triggered Operation: Tone burst and single cycle.
- Sync Output: TTL compatible.
- DC Offset: ±10 V (open circuit).
- V/f Output: Approximately 0 to 5 volts for 10,000:1 log sweep range.
- Sweep Output: 0 to 5 volt ramp.
- Variable Symmetry: 5:95 to 95:5 varieble symmetry divides frequency by approximately 10.
- Attenuator: 60 dB in 10 dB steps, plus 20 dB variable (total 80 dB).
- Trigger Input: +1.4 volts, ±90°.
- Power: 100/120/220/240 VAC, 50/60 Hz, 30 watts.
- Size: 12-1/2" x 5" x 11" (318 x 127 x 279mm).
- Weight: 10 lbs. (4.5 kg).

B&K PRECISION
5 MHz PULSE GENERATOR
MODEL 3300
REG. $399.00
OUR PRICE
$339.95

FEATURES
- Pulse period range of 200ns to 1s frequency range of 5 mHz to 1 Hz.
- Identical pulse width and delay ranges of 100ns to 1s.
- Can be used with an oscilloscope for adjustable sweep delay.
- Rise time is less than 15ns.
- 50 ohm/600 ohm outputs.
- Adjustable DC offset.
- TTL output.
- Pulse-burst capability for testing counters and shift registers.

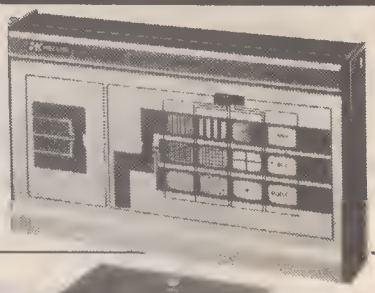
SPECIFICATIONS
PULSE CHARACTERISTICS—Pulse Width: 100ns to 1 sec. **Trigger Delay or Pulse Delay: Rep. Period:** 200ns to 1 sec. **Freq. Range:** 5 mHz to 1 Hz. **Duty Cycle:** Up to 100% D.C. **Trigger Input:** Selectable threshold from —18 to +18V. **Outputs:** TTL, 50 ohm, 600 ohm. **OUTPUT CHARACTERISTICS TTL:** 50 ohm: 0 to 5V with 50 ohm load. 600 ohm: —15V to +15V linear adjust with D.C. offset. **Rise and Fall Times:** TTL less than 25ns: 50ohm 15ns: 800 ohm less than 75ns. **MODES:** Free running, triggered, pulse amplifier, external gate, trigger delay (post trigger), pulse delay, manual, fixed delay, square wave. **GENERAL Overlap Indicator:** LED. **Operating Environment:** 0-50°C. **Power:** 117/234 VAC, 50/60 Hz 28W. Three-wire cord. **Size (HWD):** 8.1 x 29 x 20cm (3.2 x 11.3 x 7.8") incl. handle at rest position. **Weight:** 1.35 kg. (3.1 lbs.) CSA listed.

LC-50 Carrying case..... **$32.00**

TEST INSTRUMENTS

B&K PRECISION PORTABLE IC COLOR PATTERN GENERATOR

MODEL 1211A **REG. $185.00** **OUR PRICE $157.25**



FEATURES

- Generates 10 stable patterns including cross-hatch, 7 x 11 dot, gated rainbow and purity. • Compact for field service convenience.
- Very rugged aluminum and steel case. • Selects outputs on 2 channels. • Adjustable RF output into 75 ohm load.
- Adjustable video output up to 1V p-p into 75 ohm load.

SPECIFICATIONS

Line Width—Horizontal: 1 horizontal line. **Vertical:** Pre-set to 0.3 micro sec. **CHROMA Uses** frequency of 3.579545 MHz minus 1 horizontal line (15,750 Hz or 3.563795 MHz, ±0.001%.) **Color level control:** Adjustable from 0-100% with side panel control. **RF OUTPUT Channels:** Factory pre-set positions are switch selectable to channels 3, 4, or 7. User may readjust unit for channels 3-6 and 7-13. **SIGNAL SYNTHESIS Progressive scan system:** uses CMOS digital logic elements to derive all sync and pattern information. **GENERAL Power requirements:** 9-volt battery (supplied—DA-006P type or equiv.), or external 9VDC. **Battery life:** Approx. 16 hrs. cont. **Dimensions:** (HWD) 3.8"x 8.5"x 1.37". **Weight:** 1 lb.

B&K PRECISION DIGITAL IC COLOR GENERATOR/ANALYST

MODEL 1248 **REG. $285.00** **OUR PRICE $242.50**

FEATURES

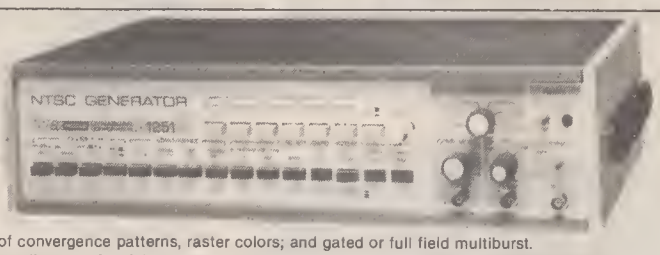
- Nine patterns. • RF, IF, video, sync and sound outputs. • Stable crystal-controlled RF and IF outputs.
- Sync level independent of video level control. • LSI MOS chip generates all patterns and logic functions.
- Switchable horizontal and vertical sync output. • Switchable 4.5 mHz sound carrier. • Lightweight.

SPECIFICATIONS

Patterns: Purity, 7 x 11 dots, 7 x 11 crosshatch, crosshair, horizontal line; R-Y, B-Y,—(R-Y); single dot, gated rainbow, vertical line. **LINE WIDTH—Horizontal:** One horizontal scan line. **Vertical:** Preset to .25uSEC, internally adjustable from .1 to .8uSEC. **COLOR SUBCARRIER:** Adjustable 0 to 150%. **SIGNAL SYNTHESIS:** Progressive scan system derives all sync and video. **SYNC PULSES—Output:** ±5V peak horizontal or vertical. **OUTPUT CARRIERS—Frequencies:** Channel 3, channel 4, 45.75 mHz IF (all crystal controlled) and 4.5 mHz ±0.2% unmodulated audio, all switch selectable. **VIDEO OUTPUT**—0 to ±1.5V p-p, into 75 ohm; amplitude and polarity continuously variable. **Operating Temperature Range:** —25°C to +75°C. 105-130VAC, 60 Hz. **Power Requirements:** 105-130 VAC, 60 Hz, CSA approved version available. **Size (HWD):** 5.7 x 17.8 x 28.8cm (2.25 x 7 x 9.38"). **Weight:** 1.8 kg (4 lbs.) **Accessories supplied:** Instruction manual, carrying case that has cable storage.

B&K PRECISION NTSC COLOR BAR GENERATOR

MODEL 1251 **REG. $995.00** **OUR PRICE $849.95**



FEATURES

- Standard NTSC color bars.
- -IWQ signal.
- Staircase - 5 step.
- Multiburst - full field and variable.
- Assorted signal outputs for various applications.
- Convergence and raster patterns.

DESCRIPTION

The B&K-PERCISION Model 1251 NTSC Color Bar Generator generates a wide variety of test signals and patterns for comprehensive testing, servicing and adjustment of virtually all types of television and video equipment.

Video patterns include standard NTSC color bars, -IWQ, and staircase at two levels of burst phase chrominance (each with chroma, full burst, or partial burst on-off selection); a full assortment of convergence patterns, raster colors; and gated or full field multiburst.

In addition to video signals, Model 1251 generates 1 kHz and 3 kHz audio tones and accepts external audio, any of which can be used to FM modulate the rf output with the standard 4.5 MHz intercarrier. The 1 kHz and 3 kHz audio tones are also available for external use.

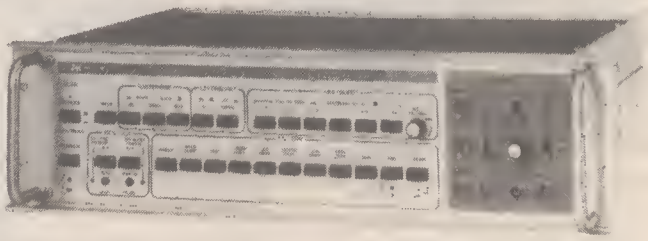
The Model 1251 NTSC Generator has the precision required for broadcast studios or transmitting equipment, closed circuit television studios and networks, design labs, and production test facilities, yet due its moderate cost is practical for service shop applications.

SPECIFICATIONS

PATTERNS: NTSC Color Bars: White (75%), yellow, cyan, green, magenta, red, blue, black (7.5% set up). **-IWO:** -I, white (100%), Q, black. Switch selectable on or off with NTSC color bars. Pattern appears on the bottom 1/4 of vertical scan. **Top Burst Off:** Switch selectable (top 1/4 of vertical scan). **Full Burst Off:** Switch selectable. **Chroma Off:** Switch selectable. **Dots:** 19 X 15. **Crosshatch:** 19 X 15. **Dot Hatch:** Dots and crosshatch. **Center Cross:**1 vertical and 1 horizontal line. **Linear Staircase:** 5 equal steps. **High or Low Chrome Staircase:** Burst phase chrome, 40-or 20 IEEE units. **Raster:** Black (7.5%), red, blue, green, yellow, cyan, magenta, white (75%). **MULTIBURST: Pattern:** 0.5, 1.5, 2.0, 3.0, 3.58 and 4.2 MHz. Six bursts with a leading white level and ON-OFF selectable color burst. Selection of any one of the six bursts for full field display. One variable frequency selectable as full field or the sixth burst of Multiburst. **Frequency Accuracy:** ±4% for 3.58 and 4.2 MHz, ±5% for 1.5, 2.0, and 3.0 MHz, ±8% for 0.5 MHz. Ver 2.5 MHz to 4.2 MHz (5.0 MHz typical). Accuracy stated at 25°C ±5°. Temperature coefficient less than 0.05 times the accuracy per °C. **Amplitude:** 90% to 100% of leading white level. **Flatness:** ±1 dB to 4.2 MHz. **VIDEO OUTPUT: Voltage:** Preset 1 V p-p. **Variable:** = 0 to 1.5 V p-p. **Impedance:** 75 ohms. **Polarity:** Positive (negative sync). **RF OUTPUT: Modulation:** Negative. **Carrier Frequency:** Crystal controlled; CH 3 = 61.25 MHz, CH 4 = 87.25 MHz, I-F = 45.75 MHz. **Voltage:** Approximately 10 mV rms (no load). **Impedance:** 75 ohms. **External Video Input:** Switch selectable; requires 1 V p-p, 75 ohm input. **SOUND OUTPUT: RF Modulation:** 4.5 MHz FM modulated intercarrier (±25 kHz deviation with internal 3 kHz audio signal). **Internal Signal:** 3 kHz or 1 kHz. **Audio Output:** 3 V p-p into 1k ohm. **External Audio Input:** 1 to 3 V p-p, 100 Hz to 10 kHz, pre-emphasis of 75 us. **Input Impedance:** 10k ohm. **SYNCHRONIZATION: Type:** 80 Hz field of 525 lines, interlaced. **Horizontal Frequency:** 15.734 kHz. **Vertical Frequency:** 59.94 Hz. **Horizontal Blanking:** 10.76 us. **Vertical Blanking:** 1.33 ms. **Horizontal Sync:** 4.89 us. **Front Porch:** 1.47 us. **Burst:** 8 cycles minimum 3.58 MHz. **Equalization Pulse:** 2.44 us. **TRIGGER OUTPUT: Type:** Horizontal or vertical sync pulse, switch selectable. **Voltage:** Approx. 1 V p-p, no load. **Impedance:** 75 ohms. **SUBCARRIER OUTPUT: Frequency:** 3.579545 MHz (±50 Hz 0° to +50°C). Stability ±1 Hz. **Voltage:** Approx. 1 V p-p, no load. **Impedance:** 75 ohms. **MULTIBURST OUTPUT: Frequency:** Frequency of any one of the six bursts or variable when Multiburst ON-OFF switch is OFF. **Voltage:** Approx. 2.5 V p-p no-load. **Impedance:** 1k ohm. **MISCELLANEOUS: Input Power Requirements:** 105-130 VAC, 80 Hz, 19 W. **Operating Temperature:** 0° to +50°C. **Dimensions (HWD):** 4-1/2 X 18 X 12" (115 X 460 X 305 mm). **Weight:** 11 lbs. (5 kg).

B&K PRECISION DELUXE VIDEO SIGNAL GENERATOR

MODEL 1260 **REG. $1695.00** **OUR PRICE $1440.75**



- TCXO Master Oscillator stability Exceeds Broadcast Requirements.
- NTSC Color Bars - with or without - IWO signal.
- Five step linear staircase; selectable high/low chroma.
- Selectable chroma and burst. • Circle pattern.
- Multiburst pattern - full field, stepped or variable.
- Convergence patterns - dot, cross-hatch, dot-hatch, center cross.
- Raster patterns-eight EIA colors. • RGB outputs.
- Interlaced or progressive scan. • Gen Lock.
- Crystal Oscillator - 1-F CH 3, CH 4 and sync generator.
- Composite video output. • RF output.
- External Video input.
- Sound output-1kHz or 3kHz.
- External audio input and output
- Black Burst output. • Sync Pulse output.
- Subcarrier output. • Multiburst output.
- Composite blanking output.
- Rugged rack-mount cabinet design.

APPLICATIONS

Television studio and transmitting station set-up and maintenance....CATV, MATV, CCTV system installation, adjustment, service and maintenance....Color or black and white video monitor or RGB color monitor installation, adjustment, and service...television, VTR, VCR and Video disc testing, service and adjustment...Production line testing of nearly any type of video product...video product design lab.

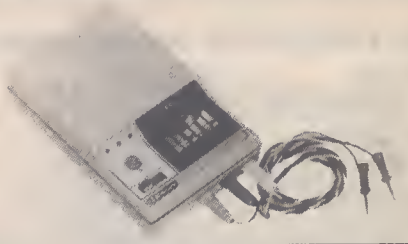
SPECIFICATIONS

PATTERNS: NTSC Color Bars: White (75%), yellow, cyan, green, magenta, red, blue, black (7.5% set up). **—IWO:**-I, white (100%), Q, black. Switch selectable on or off with NTSC color bars. Pattern appears on the bottom 1/4 of vertical scan. **Top Burst Off:** Switch selectable (top 1/4 of vertical scan). **Full Burst Off:** Switch selectable. **Chroma Off:** Switch selectable. **Circle:** May be superimposed on any pattern. **Dots:** 19 X 15. **Crosshatch:** 19 X 15. **Dot Hatch:** Dots and crosshatch. **Center Cross:**1 vertical and 1 horizontal line. **Linear Staircase:** 5 equal steps. **High or Low Chrome Staircase:** Burst phase chroma, 40 or 20 IEEE units. **Raster:** Black (7.5%), red, blue, green, yellow, cyan, magenta, white (75%). **MULTIBURST: Gated Multiburst:** Six fixed frequencies (0.5, 1.5, 2.0, 3.0, 3.58 and 4.2 MHz ±5%) with a leading white level. **Full Field:** Any one of the six frequencies selectable for full field display. **Variable Frequency:** One selectable variable frequency may be substituted for 4.2 MHz as the sixth frequency for full field (variable from 2 MHz to 7 MHz). **Amplitude Flatness:** ±1 dB to 4.2 MHz. **MULTIBURST OUTPUT:** Multiburst output available at rear panel for frequency measurement. **Voltage:** less than 2.4 V p-p into open circuit. **Impedance:** 1 k ohm. **VIDEO OUTPUT: Composite Video Voltage:** Preset = 1 V p-p. Variable = 0 to 1.5 V p-p. **Impedance:** 75 ohms. **Polarity:** Positive (negative sync). **RF OUTPUT Modulation:** Negative. **Carrier Frequency:** Crystal controlled CH 3 = 61.25 MHz., CH 4 = 67.25 MHz. **I-F** = 45.75 MHz. **Voltage:** 5 mV rms min. into 75 ohm. **Impedance:** 75 ohms. **External Video Input:** Switch selectable; requires 1 V p-p, 75 ohm input. **SOUND OUTPUT: RF Modulation:** 4.5 MHz FM modulated intercarrier (±25 kHz deviation with internal 3 kHz audio signal). **Internal Signal:** 3 kHz or 1 kHz. **Audio Output:** 3 V p-p into 1k ohm. **External Audio Input:** 1 to 3 V p-p, 100 Hz to 10 kHz, pre-emphasis of 75 us. **Input Impedance:** 10k ohm. **SYNCHRONIZATION: Type:** 59.94 Hz field of 525 lines, interlaced scan; 282 lines non-interlaced scan. **Horizontal Frequency:** 15.734 kHz. **Vertical Frequency:** 59.94 Hz. **Horizontal Blanking:** 10.76 us. **Vertical Blanking:** 1.33 ms. **Horizontal Sync:** 4.89 us. **Front Porch:** 1.47 us. **Burst:** 8 cycles minimum 3.58 MHz. **Equalization Pulse:** 2.44 us. **TRIGGER OUTPUT: Type:** Horizontal or vertical sync pulse, switch selectable. **Horizontal Sync:** pulse available on rear panel. **Voltage:** TTL level. **Impedance:** 75 ohms. **Polarity:** negative going sync. **SUBCARRIER OUTPUT: Frequency:** 3.579545 MHz (±5 Hz 0° to +40°C). Setability ±1 Hz; TCXO. **Voltage:** Approx. 1 V p-p, no load. **Impedance:** 75 ohms.**GEN LOCK:** Generator synchronizes horizontal and vertical sync and color burst with external NTSC video input. Adjustments on front panel for horizontal delay and chroma phase. BNC connector or rear panel for loop through. **Composite Sync Output:** -4V into 75 ohm. **Composite Blanking Output:** -4V into 75 ohm. **Black Burst Output:** Continuous output consisting of negative sync (286mV p-p), color burst (206mV p-p), and black level 75 ohm. **RGB OUTPUT Outputs:** Red, green, and blue outputs to drive 525 line color monitors. **Video Patterns:** Convergence, full field raster, multiburst, circle, and staircase. **Voltage:** High/low selectable. Use low level for staircase. Low level approx. 1V p-p into 75 ohms. High level less than 2.4 into open circuit (TTL). **Sync:** Horizontal and vertical sync; less than 2.4V into open circuit (TTL). **Polarity:** Positive sync. Positive RGB. **MISCELLANEOUS Input Power Requirements:** 105-130VAC, 60Hz, 25W. **Operating Temp.:** 0°+50°C. Specifications apply for operating temp. of +18° to +28°C unless otherwise noted. Temperature coefficient less than 0.1 times the stated accuracy per °C. **Dimensions (HWD):** 5-5/16 x 19 x 14". **Weight:** 14 lbs. **Accessories Supplied are** Instruction Manual, Schematic Diagram & Parts List.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

B&K PRECISION PORTABLE TRANSISTOR TESTER

MODEL 510 REG. $155.00 OUR PRICE **$131.75**

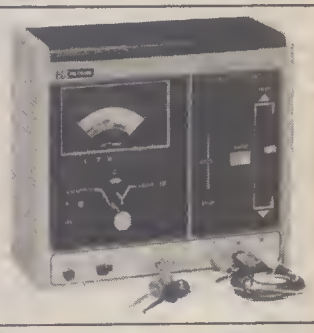


FEATURES
- Fast Go/No-Go in-circuit transistor testing. • Fast and thorough Good/Bad out-of-circuit testing.
- Tests FET's and SCR's in-circuit or out-of-circuit. • Connect any test clip to any component lead.
- Gives positive emitter-base-collector identification in Lo drive — positive base identification in Hi drive.
- Light-emitting Diodes indicate NPN-OK or PNP-OK. • Pocket size — Over 100 hours of testing from single set of "AA" cells.
- Digital stability — no adjustments; nothing to go out of calibration.
- Power required: 6VDC from four 'AA' cells, not supplied. Standby current, 4mA; average testing current, 12mA.
- Size (HWD): 9.5 x 4.4 x 16.6cm (3.75 x 1.75 x 6.63"). • Weight: .45kg. (1 lb.) (less batteries).
- Accessories supplied: three test leads with mini-lock clips, carrying case, and instruction manual.

Optional DynaFlex Probe FP-5.....$27.00 **Carrying Case LC-18**.....$14.95

B&K PRECISION DYNAPEAK TRANSISTOR TESTER

MODEL 520B REG. $275.00 OUR PRICE **$233.75**



FEATURES
- Fast testing. • Now with Hi/Lo drive. • Works in-circuit when others won't. • Identifies leads of bipolers and FET's. • Random lead connection.
- Audible test OK 'beep'. • Automatic NPN/PNP and Si/Ge identification. • Tests diodes, SCR's, FET's, and Darlingtons.
- Hi/Lo drive. • Automatic leakage measurement. • Includes: Color coded test leads with spring loaded clips; instruction manual.
- Power: 105-125VAC, 50-60 Hz. CSA and 230V version available. • Size (HWD): 17 x 20 x 6.9cm (7 x 8 x 3.5"). • Weight: 2.27kg. (5 lbs.)
- Optional accessories: Model FP-5 probe see model 510 above.

IN-CIRCUIT TESTS
- Good/Bad Test: For PNP and NPN transistors, FET's and SCR's. • Identifies: NPN or PNP.

OUT-OF-CIRCUIT TESTS
- Good/Bad Test: For PNP and NPN transistors, FET's, SCR's, leakage and loss. • Identifies: NPN or PNP; silicon or germanium transistors.
- Measures: Reverse leakage from 0.1 uA to 5 mA.

B&K PRECISION LAB-QUALITY SEMICONDUCTOR TESTER

MODEL 530 REG. $497.00 OUR PRICE **$425.00**

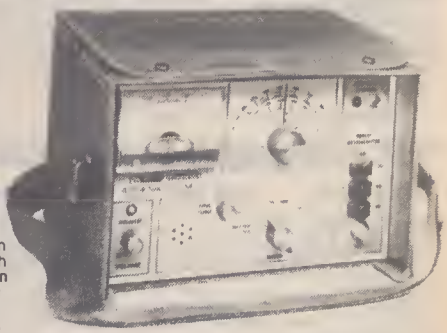
FEATURES
- Measures transistor beta or FET Gm. • Measures transistor cut-off frequency up to 1500 mHz. • Will test power FET's.
- Nondestructive testing of transistor and diode breakdown voltages. • Measures Ices and Idss.
- Fast testing of transistors, FET's and SCR's — in or out-of-circuit. • No biasing information required.
- Identifies all leads of transistors and SCR's. • Automatic identification of PNP/NPN types and N or P channel FET's.

IN-CIRCUIT TESTS
- Good/Bad Test: For bipolar transistors, FET's and SCR's.

OUT-OF-CIRCUIT TESTS
- Measures: Transistor beta using two collector current ranges (low-power beta 0-600; high-power beta, 15-200).
- Gm of FET's: including high-power devices (low-power, 0-30 millimohs; high-power, 30-425 millimhos).
- Ft: Three ranges (0-100 mHz, 0-500 mHz, 0-1500 mHz).
- BVces, Ices, PIV: of diodes and gate leakage of FET's (.5uA to 5 mA at 10 V; .5uA to 100uA at 10 V-100 V). Automatic current limiting prevents damage to device under test.
- Idss of FET's: (.5uA to 5 mA at 10 V). • Accuracy: Within 10% for B, gm and 25% ft tests.
- High power beta and gm tests: Special 300 uS, 1% duty cycle current pulses enable testing a 2 amps without over dissipation of device under test.
- Indicators: Audible tone for Good indication. LED lamps identify device polarity. Panel indicator and test switch identifies all leads of transistors and SCR's and gate of lead of FET's. Meters indicate other device parameters.
- Optional: FP-5 Dynaflex three-lead, one-hand probe for easy in-circuit testing.
- Power Required: 105-125 VAC, 80 Hz, 10 watts. • CSA and 230V version available. • Size (HWD): 10 x 33.6 x 25.8cm (4 x 13.5 x 10.25"). • Weight: 2.3 kg. (5 lbs.).

B&K PRECISION VHF/CATV SIGNAL LEVEL METER

MODEL 425 REG. $550.00 OUR PRICE **$467.50**



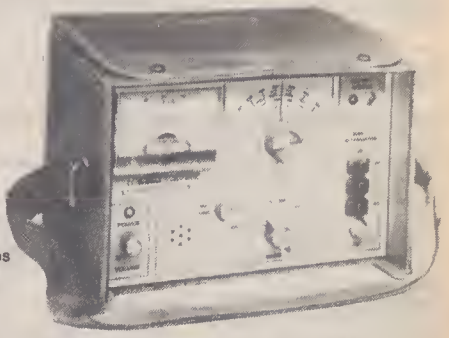
FEATURES
- 50 to 450 MHz frequency coverage. • Designed for field use. • Supplied with rechargable NiCad battery and charger.
- -30 dBmV to +60 dBmV measurements. • Large easy-to-read meter. • Easy tuning. • Automatic turn-off. • Three 20 dB attenuators.
- Dimensions: (WDH) 9-3/4"x 6-1/4"x 6-3/4". • Weight: 8 lbs.

APPLICATIONS
Television and FM antenna installation and servicing...satellite antenna site selection and installation...MATV and CATV installation, maintenance and service...checking rf output on video cassette recorders, home computers, video games, etc.

DESCRIPTION
The B&K PRECISION Model 425 Signal Level Meter covers all VHF television broadcast frequencies and all cable TV frequencies from 50 MHz to 450 MHz in three bands. Model 425 utilizes a double conversion superheterodyne design that provides good sensitivity, high signal-to-noise ratio, and high image rejection. Three 20 dB attenuators provide measurements from -30dBmV to +80 dBmV. The main tuning dial and fine tuning control allow easy tuning of the desired frequency. Narrow i-f bandwidth and i-f shape factor make it easy to separate adjacent channel signals, even when the signal is 30 dB below the adjacent channel. A built-in audio amplifier and speaker help indentify the video and audio carrier. To conserve battery life and limit battery drain if the unit is unintentionally left on, Model 425 automatically turns off after 15 minutes. All measurements are displayed on a large easy-to-read meter calibrated in dBmV. The input signal is terminated into a 75 ohm, Type F connector. Model 425 is housed in a rugged impact resistant case that includes an integral cover to protect the front panel and an adjustable carrying strap which can be used as a handle, shoulder strap or neck strap. The unit is powered by a rechargeable Ni-Cad battery. Battery and charger are supplied.

B&K PRECISION VHF/UHF/CATV SIGNAL LEVEL METER

MODEL 430 REG. $850.00 OUR PRICE **$722.50**



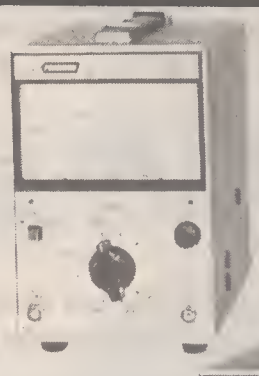
FEATURES
- 50 to 450 MHz, 470 to 810 MHz frequency coverage. • Designed for field use.
- Supplied with rechargeable NiCad battery and charger. • -30 dBmV to +60 dBmV measurements.
- Built-in rf signal source. • Large easy-to-read meter. • Easy tuning. • Automatic turn-off. • Three 20 dB attenuators.
- Dimensions: (WDH) 9-3/4"x 6-1/4"x 6-3/4". Weight: 8 lbs.

APPLICATIONS
Television and FM antenna installation and servicing...satellite antenna site selection and installation...MATV and CATV installation, maintenance and service...checking rf output on video cassette recorders, home computers, video games, etc.

DESCRIPTION
The B&K PRECISION Model 430 Signal Level Meter covers all VHF/UHF television broadcast frequencies and all cable TV frequencies from 50 MHz to 450 MHz; and all UHF television broadcast frequencies from 470 MHz to 810 MHz in four bands. Model 430 utilizes a double conversion superheterodyne design that provides good sensitivity, high signal-to-noise ratio, and high image rejection. Three 20 dB attenuators provide measurements from -30 dBmV to +60 dBmV. The main tuning dial and fine tuning control allow easy tuning of the desired frequency. Narrow i-f bandwidth and i-f shape factor make it easy to separated adjacent channel signals, even when the signal is 30 dB below the adjacent channel. A built-in audio amplifier and speaker help indentify the video and audio carriers. In addition the Model 430 has a built-in rf signal source and calibrated signal level for checking meter calibration and for testing equipment and distribution networks where a signal must be injected. To conserve battery life and limit battery drain if the unit is unintentionally left on, Model 430 automatically turns off after 15 minutes. All measurements are displayed on a large easy-to-read meter calibrated in dBmV. The input signal is terminated into a 75 ohm, Type F connector. Model 430 is housed in a rugged impact resistant case that includes an integral cover to protect the front panel and an adjustable carrying strap which can be used as a handle, shoulder strap or neck strap. The unit is powered by a rechargeable NiCad battery. Battery and charger are supplied.

TEST INSTRUMENTS

B&K PRECISION WIDEBAND SINGLE AND DUAL CHANNEL AC VOLTMETERS



MODEL 295
REG. $250.00 OUR PRICE $212.50

MODEL 297-B
REG. $420.00 OUR PRICE $357.00

FEATURES 295
- Single channel
- 1000uV to 300 V range
- 5 Hz to 1 MHz frequency range
- 10 Mohm/45 pF input impedance

FEATURES 297-B
- Dual channel
- 300uV to 100 V range
- 5 Hz to 1 MHz frequency range
- 10 Mohm/45 pF input impedance

APPLICATIONS
Servicing and designing audio products. . .measures outputs of transducers in audio and video tape heads. . .monitor output levels and deviations in response with RMS and dB calibrated meter. . .service stereo or multi-sound channel sections of satellite transmission systems, VCR's, video disc players, audio disc players, and AM stereo equipment.

DESCRIPTION
The B & K PRECISION Model 295 single channel and Model 297 dual channel wideband AC voltmeters provide the sensitivity and accuracy to meet a wide range of design service and production applications.
Both models feature solid state circuit design to provide stable operation while reducing warm-up time and lowering power consumption.
Meter scales are graduated in RMS values for sinusoidal waves. The meter also has dB and dBm scales for measuring relative values.
Models 295 and 297 feature an amplifier output whereby microvolt signal levels are amplified to levels that can be observed on an oscilloscope.

SPECIFICATIONS FOR 295
Meter Section: Voltage Ranges, Full Scale 1mV—300V in 12 ranges: 1mV, 3mV, 10mV, 30mV, 100mV, 300mV, 1V, 3V, 10V, 30V, 100V, and 300V. dB: —80-+50dB (0dB = 1V). dBm: —60-+52dBm (0dBm = 1mW, 600ohm). **Error:** Within ±3% of full scale at 1kHz. **Frequency response:** ± 10% at 5Hz — 1MHz, ± 5% at 10Hz — 500kHz and ± 2% at 20Hz — 100kHz as referenced to 1kHz response. **Input Impedance:** 10M ± 5%, with less than 45pF parallel capacitance. **Power Requirements: Line Voltage:** 100, 120, 220, or 240V AC 10%, 50/60 Hz. **Power Consumption:** Less than 5W. **Dimensions:** (WHD) 5"x 7.5"x 9.4". **Weight:** 6.38 lbs. **Accessories supplied:** Hook up cable(s), spare fuses, instruction manual.

SPECIFICATIONS FOR 297-B
Meter Section: Voltage Ranges Full Scale 0.3mV—100V in 12 ranges: 0.3mV, 1mV, 3mV, 10mV, 30mV, 100mV, 0.3V, 1V, 3V, 10V, 30V, and 100V. dB: —90-+40dB (0dB = 1V). dBm: —90-+42dBm (0dBm = 1mW, 600ohm). **Error:** Within ±3% of full scale at 1kHz. **Frequency response:** ± 10% at 5Hz-1MHz, ± 5% at 10Hz-500kHz and ± 3% at 20Hz-200kHz as ± 2% at 30Hz-100kHz referenced to 1kHz response. **Input Impedence:** 10Mohm ± 5%, with less than 45pF parallel capacitance. **Power Requirements: Line Voltage:** 100, 120, 220, or 240V AC 10%, 50/60 Hz. **Power Consumption:** Less than 7W. **Dimensions:** (WHD) 5"x 7.5"x 9.4". **Weight:** 6.6 lbs. **Accessories:** Hook up cable(s), spare fuses, instruction manual.

B&K PRECISION WOW AND FLUTTER METER

MODEL 1035
REG. $655.00 OUR PRICE $556.75

FEATURES
- Measures wow and flutter to 0.003%. • Selectable NAB, JIS, CCIR and DIN
- Crystal oscillators for 3kHz and 3.15kHz recording signal source
- 0.5mV minimum input voltage. • 4-digit frequency counter. • AC and DC voltage output terminals.
- Power Requirements: AC 100/120/220/240V ±10%, 50/60 Hz. Power consumption: approx. 14W.
- Dimensions: (WHD) 10.25"x 5.9"x 12.5". • 11.66 lbs.
- Accessories supplied: Connecting cable (banana plug to alligator clips), instruction manual.

APPLICATIONS
Measures wow and flutter on audio and video record/playback equipment. . .service, repair, incoming inspection, and adjustment of turntables, tapedecks, and other equipment. . .sensitivity to permit wow and flutter measurements from small output tape head or PHONO cartridge.

DESCRIPTION
The B&K PRECISION Wow and Flutter Meter Model 1035 measures wow and flutter on a wide variety of audio and video record/playback equipment in accordance with NAB (U.S.A.), JIS (Japan), CCIR (France) and DIN (Germany) standards.
Combination of wow and flutter, weighted or unweighted, can be measured on the basis of DIN standards. Wow and flutter can also be measured separately.

B&K PRECISION AUDIO GENERATOR SOLID STATE RF SIGNAL GENERATOR

MODEL 2050 REG. $218.00 OUR PRICE $185.00

APPLICATIONS
- RF amplifier gain tests. • Signal tracing. • School and scientific labs. • Hobbyists and experimenters.
- AM receiver alignment. • Signal source for industrial uses, including production lines.

FEATURES
- 100 kHz to 30 mHz in 6 bands. • Zener regulated power supply.
- 100% solid state. • Multi-colored, 4-1/2" vernier dial.

SPECIFICATIONS
Ranges: 6 ranges covering 100 kHz to 30 mHz. All on fundamentals. **Dial Accuracy:** 1.5% **Attenuator:** Combination 20 dB high-low switch, plus continuously variable output control. **Modulation:** 400 Hz; 40%. 117/234 VAC, 50-60 Hz. **Power Requirements:** 105-125 VAC, 50/60 Hz, 210-250 VAC, 50-60 Hz; 2.6 W. 3-wire grounded line cord. **Size:** (HWD) 15 x 19 x 24cm (6.1 x 7.5 x 9.75"). **Weight:** 2.2 kg. (5 lbs.). Comes with shielded leads and insulated clip/banana plug.

B&K PRECISION SOLID-STATE RF SIGNAL GENERATOR

MODEL E-200D REG. $405.00 OUR PRICE $344.00

DESCRIPTION
The Model E-200D calibrated meter monitors RF level and % modulation with 100% silicon transistor circuitry and zener-regulated power supply.

FEATURES
- Accuracy of better than 0.1% possible with internal crystal calibration.
- Wide range coverage, 100 kHz to 54 mHz in 5 bands. • Completely shielded RF output.
- 100 kHz to 54 mHz on fundamentals and 54 mHz to 216 mHz on harmonics.
- Continuously variable attenuation from 1 to 106 dB. 200 uA D'Arsonval monitor meter.

SPECIFICATIONS
Range: 100 kHz to 54 mHz on 5 fundamental bands; 54 to 216 mHz on harmonics. **Accuracy:** ± 1.5% of highest frequency of range used. **Output:** Calibrated into 50 ohm load, 100,000 uV max. Output Level Calibration Accuracy ± 1 dB of nominal to 54 mHz. **Attenuator System:** 6 individually shielded step attenuators, capability —96 dB. **Modulation:** 400 Hz, nominal. **Crystal Calibration System:** 1 mHz and 100 kHz; 100 kHz output calibrated against 1 mHz crystal oscillator. **Accuracy:** ±0.05%. **Power Requirements:** 105-130 VAC, 50-60 Hz; 6W. **Size:** 16 x 32 x 20cm (12-3/4 x 7-1/4 x 6"D). **Weight:** 4.5 kg. (10 lbs.). Comes with RF cable with alligator clip end instruction manual.

B&K PRECISION PORTABLE DIGITAL CAPACITANCE METER

MODEL 820

REG. $205.00

OUR PRICE $169.95

FEATURES
- Measures to 1 Farad in 10 ranges.
- Resolves to 0.1 pF.
- 4 digit LED display.
- 0.5% accuracy.
- Lead and banana jacks.
- Fuse protected.
- Overrange indication.

APPLICATIONS
- Measure unmarked capacitors.
- Cable capacitance.
- Trimmer capacitors.
- Capacitance in switches and other components.
- Capacitor tolerance for incoming inspection, QA; design use.

SPECIFICATIONS
Capacitance: Range: 1.0 pF to 1 Farad. **Accuracy:** 0.5% of FS., ±1 digit to 100uF; 1% of FS., ±1 digit from 1000uF to 1000mF. **Resolution:** 0.1pF on lowest range. **Reading Time:** 0.6 sec to 10mF; 35 sec max. at 1000mF. **Power:** (4-6 volts) 4 'C' cells (batteries and charger optional). **Battery Life:** 8 hours min. **Operating Temp.:** 0°C to 50°C. **Size:** (HWD) 16 x 11 x 6cm (6.4 x 4.4 x 2.375"). **Weight:** 675g (1.15 lbs.) with batteries. **Options:** BC-28 charger, BP-28 rechargeable battery pack, LC-28 carry case.

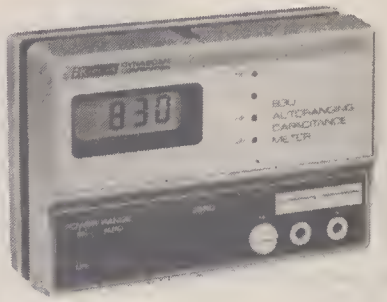
BC-28 Adaptor/Charger.....$20.00
BP-28 Rechargeable Battery Pack.....$15.00 **LC-28 Carrying Case**.....$16.00

B&K PRECISION PORTABLE AUTORANGING CAPACITANCE METER

MODEL 830-B

REG. $249.00

OUR PRICE $212.50



FEATURES
- Automatically measures to 0.1 pF to 200 mF.
- 0.2% accuracy.
- Range hold switch.
- 3-1/2 digit LCD display.
- Banana and lead jacks.
- Fuse protected.
- With tilt stand.

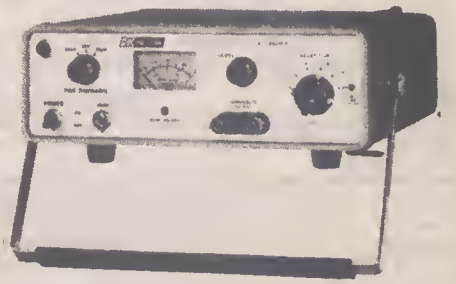
APPLICATIONS
- Measure unmarked capacitors.
- Cable capacitance.
- Trimmer capacitors.
- Capacitance in switches and other components.
- Capacitor tolerance for incoming inspection, QA; design use.

SPECIFICATIONS
Capacitance: Range: 0.1 pF to 200 mF in 10 auto selected ranges. **Accuracy:** 0.2% of rdg, ±0.5 pF, ±1 digit to 19.19 uF, 1% of rdg. **Resolution:** 0.1pF on lowest range. **Reading Time:** 0.4-1.0 sec to 0.2mF; 6 sec at 200mF. **Display:** 3-1/2 digit LCD. **Power:** 4 'C' cells, nicad or disposable, (batteries and adaptor charger optional). **Battery Life:** 20 hours min. continuous use. **Operating Temp.:** +15°+50°C. **Size:** (HWD) 16 x 11 x 6cm (6.4 x 4.4 x 2.375"). **Weight:** 725g (1.6 lbs.) with batteries. **Options:** BC-28 charger, BP-28 rechargeable battery pack, LC-28 carry case.

LC-28 Carrying Case.....$18.00 **BC-28 Adaptor/Charger**.....$20.00 **BP-28 Rechargeable Battery Pack**.....$15.00

B&K PRECISION FM MULTIPLEX STEREO SIGNAL GENERATOR

MODEL 2007 **REG. $350.00** **OUR PRICE $297.50**



FEATURES
- Metered Deviation and voltage outputs. • Selectable frequency ranges 83 to 87 MHz, 96 to 100 MHz.
- Built-in 1kHz stereo modulator. • Selectable pre-emphasis 50us and 75us or off (flat).
- Externally adjustable level and phasing of 19 kHz pilot signal.
- 40dB channel separation. • Compact, portable size.

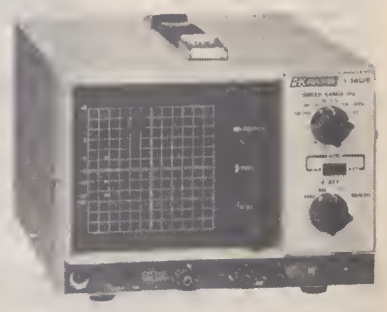
DESCRIPTION
The B&K PRECISION FM Multiplex Stereo Signal Generator Model 2007 is designed to conform with FM Multi-Stereo Broadcasting Standards of the FCC.
Model 2007 signal output is selectable for L, R, L+R, L-R, or L&R (line) modes. The instrument can also be used as a signal source to demonstrate stereo FM receiver operation.

SPECIFICATIONS
RF Output: Carrier frequencies: 83 to 87 MHz and 98 to 100 MHz, (2 bands), continuously adjustable. **Output voltage:** 100mV or more, open circuit. **Output impedance:** 300ohm balanced. **Antenna jack:** Use antenna to simulate broadcast signal. **Modulation:** 0 to ±75 kHz deviation, adjustable and monitored on front panel meter. **Modulation distortion:** 2% or less. **Signal-to-noise ratio:** -40dB or more (for L+R signal at 75kHz deviation) **Modulation Signals:** Composite, L, R, L-R, L+R, internal (1kHz) or External. **External Modulation:** Modulating frequency: 50 Hz to 15 kHz. **Input impedance:** 100 k ohms or more. **Max. Input voltage:** 2V. **Pre-emphasis:** Within ±2dB for both 50 and 75us. **Metering:** Signal output: All outputs monitored on front-panel meter. (0 to 2V). **Deviation:** Deviation of r-f output signal monitored on front-panel meter (0 to ±75kHz deviation) **Signal Outputs:** (Monitored on front-panel meter) **Frequency response:** 100 Hz to 10 kHz ± 1dB, 50 Hz to 15 kHz ± 2dB. **Output voltage:** 0 to 2 Vrms, continuously adjustable. **Output impedance:** 600 ohm **Distortion:** 1% or less **Sub-Carrier Output:** Carrier frequency: 38 kHz ± 4 Hz. Frequency response: 23 to 53 kHz ± 3dB **Composite Signal Outputs** L, R, L+R, L-R, L&R. **Channel isolation:** 40dB or better, 100 hz to 10 kHz 30dB or better, 50 Hz to 15 kHz. **Stability:** Channel isolation does not fluctuate more than 3dB in 30 minutes, when measured 30 minutes after switch-on. **Crosstalk between channels:** -30dB or more. 38kHz leakage: -40dB or more at maximum output **Power Requirements:** Source voltage: 100, 117, or 230V AC; 50 or 60 Hz. Power consumption: 5 watts. **Dimensions:** (WHD) 9"x 3.35"x 12". **Weight:** 4.4 lbs. **Accessories supplied:** hookup cable (dual banana to alligator clips), antenna, instruction manual, schematic and parts list.

B&K PRECISION 5 MHz SOLID STATE 3" OSCILLOSCOPE

MODEL 1405

REG. $315.00 **OUR PRICE $268.00**



FEATURES
- 5 mHz with high sensitivity.
- Direct deflection input for waveforms to 150 mHz.
- Sharp bright trace.
- DC amplifiers on both axes.
- 10 mV/div vertical sensitivity.
- Weighs only 8.5 lbs.

DESCRIPTION
The 1405 is an outstanding value. Bandwidth extends to 5 mHz with a sensitivity of 10mB/div or better. With high brightness CRT and smoked-glass filter, waveforms are clear and easy to observe. The graticule features dB and division indexing. Very compact, rugged cabinet.

SPECIFICATIONS
Vertical Amplifier: Sensitivity: 10mV/div or better. Response: DC, DC-5 mHz (—3dB); AC, 2Hz-5 mHz (—3dB). Max. Input: 600V peak-to-peak. Input impedance: 1 meg shunted by 35pF. Attenuator: 1, 1/10, 1/100 multiplier, ±5%. Gain Control Range: Greater than 22 dB. **Horizontal Amplifier:** Sensitivity: 300mV/division or better. Response: DC-250 kHz. Max Input: 100V p-p. **Sweep System:** Type: Recurrent. Time Base Ranges: 10-100 Hz, 100-1000 Hz, 1-10 kHz, 10-100 kHz; continuously variable between ranges. Sweep Linearity: ±5%. Sync: Internal, negative, external. **Direct Deflection Terminals:** 10V/division sensitivity or better. **General:** Intensity Modulation: 25V p-p. **Power:** 117/234VAC, 50-60Hz, 10W; three-wire grounded line cord. CSA approved. **Accessories Include:** Leads, spare fuse, instructions. **Size:** (HWD) 13.1 x 18 x 29cm (5.25 x 7.25 x 11.5"). **Weight:** 3.8kg. (8.5 lbs.). **Optional Accessories:** PR-21 probe, LC-14 case.

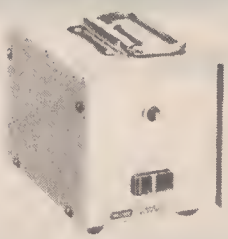
LC-14 Carrying Case .....Our Price $22.00 **PR-21 Probe**.....Our Price $25.00

B&K PRECISION ISOLATED AC POWER SUPPLY

MODEL 1604

REG. $65.00

OUR PRICE $59.95



FEATURES
- Outputs: 1 isolated 117-124V (minimal) (120 V input).
- Overload protection: Circuit breaker.
- Power cord: Three prong grounded.
- Handle: Metal.
- Size: 4 x 4 x 5-1/2".
- Weight: 6 lbs.

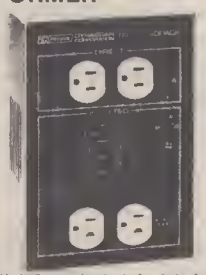
DESCRIPTION
The B&K Precision Power Supply line is the Model 1604 Isolated AC Power Supply. This rugged, compact portable unit is ideal for service shop or home service calls. Model 1604 provides 117-124 V (nominal) isolated AC (with 120 V input), 1.25A continuous output, (2A intermittent).

Other features include sturdy carrying handle, convenient circuit breaker overload protection, and 3 prong grounded power cord.

B&K PRECISION ISOLATION TRANSFORMER

MODEL TR-110

REG. $105.00 **OUR PRICE $95.00**

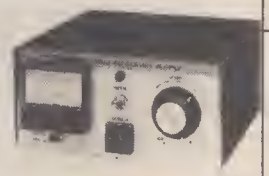


FEATURES
- Isolated outputs rated at 500 VA intermittent and 350 VA continuous.
- Isolated AC output from 90 to 140 volts in 9 steps.
- Direct voltage outputs rated at 500 VA.
- A "must" for safe testing of transformerless sets.
- Simulates "brown outs" for power supply regulation tests.
- Permits over-voltage testing to help detect intermittent faults.
- Fuse protected for added safety.
- Detailed operations and technical description provided.

SPECIFICATIONS
Input Requirements: 105-130 VAC, 60 Hz. **OUTPUT POWER RATING—Direct:** 500 VA continuous. **Isolated:** 350 VA continuous, 500 VA intermittent. **CONNECTIONS—Direct:** Duplex outlet (3-conductor). **Isolated:** Duplex outlet (3-conductor). **OUTPUT SELECTION—Direct:** Convenience duplex outlet provides line voltage for auxiliary equipment up to 500 VA. **Isolated:** Two 3-position slide switches provide 9 combinations of voltage selection from 90 to 140 volts, up to 350 VA continuous or 500 VA intermittent. Self-contained power switch with pilot lamp. **Regulation:** No load to full load (350 VA), voltage change is less than 4%. **Isolation:** Complies with UL standard 1012, May 1977. **Size (HWD):** 14 x 13 x 20cm (5-1/2 x 5-1/8 x 8"). **Weight:** 11 lbs. (5 kg.)

B&K PRECISION ISOLATED VARIABLE AC POWER SUPPLY

MODEL 1653 **REG. $165.50** **OUR PRICE $149.95**



FEATURES
- Variable isolated 0-150 VAC, 2 amp continuous output
- Displays voltage or current readings
- Isolation transformer to eliminate shock hazard while servicing "hot chassis" equipment
- Compact, rugged

DESCRIPTION
The B&K-PRECISION Model 1653 is an isolated-variable (0-150 V) AC power supply with a built-in isolation transformer for to eliminate shock hazard while servicing "hot chassis" equipment. It displays voltage and current readings.

SPECIFICATIONS
Voltage Adjustment Range: 0-150 VAC, with input at 120 VAC. **Output Isolation:** leakage less than 0.1 mA (25°C, 50% relative humidity) **Current Range:** 0-2 A. **Maximum Current (Isolated):** 2 A continuous. **Voltage/Current Sensing:** Sine wave average, calibrated in RMS. **Meter:** 3 1/2", overrange protected. **Meter Accuracy:** ±5% of full scale. **Power Requirements:** 120 VAC ±10%, 60 Hz 300 VA. **Dimensions:** 8 1/2" x 3 3/4" x 8" (216 x 95 x 203 mm) **Weight:** 12 lbs. (5.5 kg.)

APPLICATIONS
Performance testing at normal, low and high line voltages... troubleshooting equipment that blows fuses at normal line voltage...bench testing and repair of equipment which operates at other than 120 VAC (e.g. 24 VAC Class II industrial control equipment)...troubleshooting of defects that occur only at low or high line voltages...testing excessive or normal current drain in equipment...incoming inspection of equipment to verify its electrical load specification.

B&K PRECISION LAB POWER SUPPLY

MODEL 1650

REG. $399.00 **OUR PRICE $339.95**

APPLICATIONS
- Digital circuits.
- Solid-state engineering work.
- Microprocessors.
- Production testing.
- Schools.
- Service applications.
- Experimenters and hobbyists.

FEATURES
- Functions as three separate power supplies.
- 5 VDC, 5A fixed-output plus two separate 0 to 25 VDC outputs at 0.5A.
- Fully automatic, current-limited overload protection.
- 25 volt supplies can be operated independently or electronically coupled for single-knob control.
- All terminals are fully isolated in all modes.
- Output may be connected in series or parallel for higher voltage or current.
- 'B' supply can be set to track 'A' supply directly or in any ratio from 0-100%.

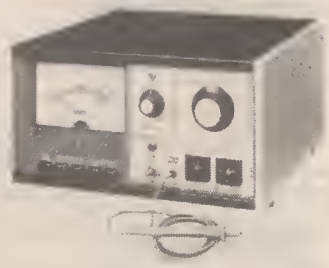
SPECIFICATIONS
Output Voltage: 5 VDC ±3%. **A Supply:** 0-25 VDC. **B Supply:** 0-25 VDC. **Output Current:** 5 volt supply, 5A max.; **A&B Supplies:** 0.5A. **Load Regulation:** Less than 0.1% (25mV) from no-load to full-load on 25V supplies. Less than 3% (150mV) from 10 mA to 5A on 5V supply. **Line Regulation:** Less than 0.2% (50mV) for line change of 20V on 25V supplies. Less than 0.4% (20mV) on 5V supply. **Ripple:** Less than 5mV RMS on 25V supplies; Less than 10mV RMS on 5V supply. **General—Size (HWD):** 3.9 x 14.1 x 10cm (3.9 x 14.13 x 10"). **Weight:** 11 lbs. (5 kg.). **Input Voltage:** 105-125 VAC, 60 Hz. CSA listed.

B&K PRECISION ISOLATED VARIABLE AC POWER SUPPLY

MODEL 1655

REG. $350.00

OUR PRICE $297.50



FEATURES
- Power Line Leakage Tester
- Variable-Isolated output-0-150 VAC
- 3 amp continuous, 4 amp intermitten output
- Built-in solid state soldering iron temperature control
- Expanded leakage scale
- Circuit breaker overload protection
- Displays volts, amps, VA, leakage
- Two volt-amp ranges (0-240, 0-480) for convenient load requirements

DESCRIPTION
The B&K-PRECISION Model 1655 is an isolated-variable (0-150 V) AC power supply with a built-in isolation transformer for safe servicing of "hot chassis" equipment. It includes a leakage test capability and a built-in solid state soldering iron temperature control.

SPECIFICATIONS
Voltage Adjustment Range: 0-150 VAC, with input at 120 VAC. **Output Isolation:** leakage less than 0.1 mA (25°C, 50% relative humidity) **Current Range:** 0-2 A, 0-4 A. **Maximum Current (Isolated):** 3 A continuous, 4 A intermitten (0-130 V). **Peak Current (Inrush):** 30 A max. (inrush limited to one cycle at 30 A). **Voltage/Current Sensing:** Sine wave average, calibrated in RMS. **Volt-Amp Ranges:** 0-240 VA, 0-480 VA, (voltage set at 120) **Leakage Range:** 0 to 5,000 microamps (expanded in 100-500 microamp portion, compressed to 5 mA full scale). **Meter:** 4 1/2", multicolor scales, overrange protected. **Meter Accuracy:** ±5% of full scale (volts and current) ±5% @ 500 microamps (leakage) **Solder Iron Temperature Control:** 70%-99% of power line (100 W max.) **Power Requirements:** 120 VAC ±10%, 60 Hz 600 VA at maximum output. **Dimensions (HWD):** 12" x 6" x 11" (305 x 152 x 280 mm) **Weight:** 22 lbs. (10 kg.)

APPLICATIONS
Performance testing at normal, low and high line voltages... troubleshooting equipment that blows fuses at normal line voltage...bench testing and repair of equipment which operates at other than 120 VAC (e.g. 24 VAC Class II industrial control equipment)...troubleshooting of defects that occur only at low or high line voltages...testing excessive or normal current drain in equipment...incoming inspection of equipment to verify its electrical load specification.

Power line chassis leakage testing to verify compliance or OSHA, UL and CSA leakage requirements...locate dielectric breakdowns with leakage test. Ideal OEM and MRO instrument.

B&K PRECISION REGULATED LAB POWER SUPPLIES

MODEL 1601

REG. $389.00

OUR PRICE $324.75

FEATURES
- 0-50 VDC output, continuously variable with single control.
- 0-2A, fully regulated.
- Standby switch disconnects load.
- On/off/voltage output control assures initial zero output.

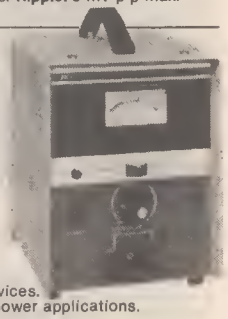
Advanced-design supplies for schools, service, labs and production feature simplified current limit setting that does not require shorting output terminals. Fail safe overload protection shuts unit down when current exceeds preset level. Pushbutton restores operation.

SPECIFICATIONS
Load Regulation: Maximum 0.1%; typical. 0.07%. **Line Regulation:** 0.02% typical at max. output ratings, 105-125 VAC. CSA listed and 230V version available. **Ripple:** 5 mV p-p max. **Size (HWD):** 3.8 x 14.1 x 10". **Weight:** 11 lbs. (5 kg.).

B&K PRECISION LOW-VOLTAGE SUPPLY FOR DIGITAL NEEDS

MODEL 1654 **REG. $349.00**

OUR PRICE $296.65



FEATURES
- Continuously variable 2.0 to 6.0 volt output with vernier control.
- Remote sensing feature eliminates regulation error by monitoring output directly at load.
- Complete overvoltage/overload protection circuitry.
- High-current 10 amp output capability.

APPLICATIONS
- Power TTL logic circuitry.
- Power microcomputer projects.
- Drive low-voltage servo systems.
- Power opto-electronic devices.
- General purpose digital power applications.

SPECIFICATIONS
Input Voltage: 100, 120, 220, or 240 VAC ±10%, 50/60 Hz; 140W max. at full rated load. External line voltage selection from rear panel. **Output:** 2.0V (typical) to 6.0 VDC at 0 to 10A. Continuously variable with course and vernier controls. **Noise and Ripple:** Less than 15mV RMS, or 60mV p-p, measured differentially across (+) and (—) output terminals, outputs not shorted to SENSE terminals. **Load Regulation, No Load to Full Load:** 0.5%, measured across output. **Line Regulation:** 0.4%, for line variation of ±10% from 120 VAC. **Transient Load Response:** Within 50mV in 200 uS, maximum excursion 400mV, (50% change; 5A to 10A). **Overvoltage Protection:** SCR protection circuit set to crowbar between 6.5 and 7.0 VDC. **Reverse Polarity Protection:** Diode protected. **Current Limiting:** Current limiting at approximately 15A if output is short circuited or overloaded. Output voltage drops to 0.18V for short circuit. **GENERAL—Metering:** Switchable to output voltage or current. 0 to 7V and 0 to 11A ranges. **Meter Accuracy:** ±5% of full scale. **Cooling:** Convection. **Operating Temperature:** 0° to +40°C (32° to 104°F) at full rated load. Max. current is derated 200mA per degree C above +40°C to a max. operating temperature of 50°C. **Size (HWD):** 21.9 x 16.2 x 24.1cm (8-5/8 x 6-3/8 x 9-1/2"), including knob projection. **Weight:** 5.75 kg (12-3/4 lb.).

B&K PRECISION CRT RESTORER/ANALYZER

With High Speed Multiplex Technique

MODEL 467

REG. $550.00 OUR PRICE $467.50

FEATURES

- Restores color end b/w picture tubee like new! Uses the most powerful restoration method known with minimal danger to the CRT. You can guarantee it with confidence.
- Exclusive multiplex test technique tests all three guns of color CRT's simultaneously under actual operating conditions, even CRT's with common G1 and G2, with real dynamic tests.
- Checks all CRT's with identical procedure—including all 'in-line' and 'one-gun' types.
- Instant, automatic trecking test et the push of a button.
- Guaranteed speed, accuracy and reliability from eutomatic digital circuit techniques.
- Exclusive! Test focus electrode.
- Nothing to look up efter the initial set-up—no calculations, charts or replugging needed.
- Test indications are clear enough to be understood by your customers.
- Size (HWD): 34 x 25 x 14cm (10 x 13-1/2 x 5-1/4"). • Weight: 4.5 kg (10 lbs.).
- Power: 117 VAC, 60 Hz, 40 watts. CSA and 230V 50 Hz version aveileble.

B&K PRECISION CRT RESTORER/ANALYZER

Seme Powerful Restoretion Method As 467

MODEL 470

REG. $395.00 OUR PRICE $335.75

FEATURES

- Restores color end b/w picture tubes like new! Uses the most powerful restoration method known with minimal danger to the CRT. You can guerantee it with confidence.
- Exclusive technique tests guns of color CRT's under ectual opereting conditions, even CRT's with common G1 and G2, with real dynamic tests.
- Checke all CRT's with identical procedure—including all 'in-line' and 'one-gun' types.
- Instant, automatic tracking test at the push of a button.
- Lerge 5" meter with multicolor scales for accurate display of tube condition to the customer.
- Nothing to look up efter the initial set-up—no calculations, cherts or replugging needed.
- Size: 34 x 25 x 14cm (10 x 13-1/2 x 5-1/4" thick.). • Weight: 3.7 kg. (7 lbs.).
- Power: 117VAC, 60 Hz, 40 watts. CSA and 230V 50 Hz version available.
- **CRT ADAPTORS AVAILABLE!**

B&K PRECISION 100% DYNAMIC GM TUBE TESTER

MODEL 747B

REG. $650 OUR PRICE $559.95

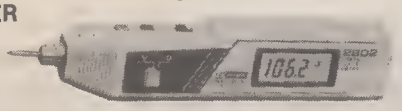
- Overload reset on front panel, eliminates need for fuse replacement, saves time, indicates overload condition.
- All solid-state for stability and reliability.
- 100% mutual conductance.
- 21 pre-wired sockets are provided for most common tubes—only 2 settings are required.
- 9 programable sockets protect against obsolesence.
- Detects leakage as low as 0.5uA.
- Detects shorts up to 1M ohm.
- Tests each tube section separately.
- Grid leakage up to 100M ohm easily detected.
- Automatic line voltage compensation.
- Tests diodes, rectifiers and high voltage regulators.
- Size: 13 x 50 x 30cm (5-5/16 x 20-1/2 x 11-1/2"D).
- Weight: 5.8 kg. (13 lbs). CSA and 230V, 50 Hz version available.
- Power: 105-125VAC, 60 Hz.

B&K PRECISION AUTO-RANGING PROBE TYPE DIGITAL MULTIMETER

NEW!

MODEL 2802

OUR PRICE $49.95



FEATURES

- 0.7% DCV accuracy. • Auto-ranging on all function. • Low battery indicator.
- 3½ digit LCD display with annunciators. • Audible continuity check.
- Data hold switch latches reading into display. • Rugged case with RFI/EMI shielding.
- Comes complete with two interchangeable probe tips (long & short), batteries, ground lead and alligator clip.

DESCRIPTION

The B&K Precision model 2802 probe type digital multimeter is an economical 3½ digit DMM ideally suited for in-the-field, ehop or hobby applications.
All measurements are displayed on a 3½ digit LCD display with annunciator for function, unit, polarity, decimal and low battery. Continuity checks ere ennunciated by en audible tone. A Data Hold switch feature permits meter reading after probe tip is removed from the point of measurement. Model 2802 is overload protected end indicates overrange on all ranges.

SPECIFICATIONS

The following electrical specifications are valid for an operating temperature of +18°C to +28°C at relative humidity up to 80%. **DC VOLTAGE (auto ranging)** .2V, 2V, 20V, 200V, 500V (700 Overload Protected), Resolution 1mV (100uV) on .2V range. **AC VOLTAGE (auto ranging)** .2V, 20V, 200V, 500V. (Overload Protected) 500V RMS Resolution 1mV 2V range. **RESISTANCE (auto ranging)** 200 ohm, 2k, 20k, 200k, 2M ohm, 20M ohm. (Overload Protected 250V) Resolution .1 ohm on 200 ohm range. **RESISTANCE ACCURACY** 1.2% MEG range, 2.0% 20 MEG Range **AUDIBLE TONE** Continuity Check below 150 ohm. **DATA HOLD** Holds reading when data hold is pressed. **DISPLAY** 3½ LCD. **AUTO POLARITY** (+)indicated, (+)implied. **POWER REQUIREMENTS** Two cells, 1.5V each, NEDA 1166A (alkaline), or NEDA 1131S0 (silver oxide). **WEIGHT** 2.32 oz. (65g). **DIMENSIDNS** 6"L x ¾"W x 1¼"H. **Proba Tips** ½" and 2".

B&K PRECISION 50 MHz DIGITAL PROBE

MODEL DP-51

REG. $79.00 OUR PRICE $67.50

DESCRIPTION

The B&K-Precision Model DP-51 DC-to-50 mHz Digitel Probe is designed for fast anelysis of multi-family logic circuits. The rugged, lightweight digital probe is compatible with TTL, MOS, CMOS, HTL, DTL, RTL end high-noise immunity logic 0(Hi NII). The unit is fully overload-protected and will withstand ±50 VDC at the input tip.

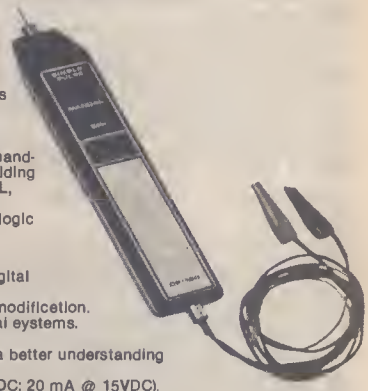
APPLICATIONS

- Analyzing digitel circuite for design.
- Simplifies end speeds debugging of multi-femily digitel circuits.
- Tracing e pulse throughout a digital circuit.
- Quick eveluetion of digital design changes or circuit modifications.
- Isolating feulty circuits or components.
- Inetructional aid for a better underetanding of logic circuite.
- Power Requirementc: 5 to 15VDC (30ma @ 5VDC; 90ma @ 15VDC) protected to +20VDC.
- Dimensions: (HWD) 6.5"x 1.25"x .75". • Weight: 3.5 oz.

B&K PRECISION DIGITAL PULSAR PROBE

MODEL DP-101 REG. $109.00

OUR PRICE $92.00



DESCRIPTION

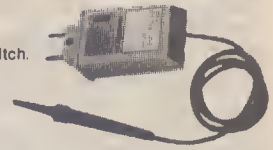
The B&K-Precision Model DP-101 Digital Puleer is a truly modular approach to troubleshooting digitel circuits. it feetures the capebilitiee of stimulating test nodes and creating complementary conditions for logic circuit evaluation. This hand-held instrument hes increesed versetility by providing stimulation for a multitude of digital familiee: TTL, MOS, CMOS, RTL, DTL, and HI NII. The DP-101 facilitates digital circuit analysis and integrated logic system debugging.

APPLICATIONS

- Injection of subetitute logic pulses to aid in digital circuit debugging.
- Quick evaluation of digital chenges or circuit modificetion.
- Aid in development of microproceesor or digital eystems.
- Isolate faulty circuits or components.
- Logic circuit stimulation. Instructional aid for a better understanding of logic circuit operations.
- Power Requirements: 5 to 15 volte (1mA @ 5VDC; 20 mA @ 15VDC).

B&K PRECISION SOLID-STATE TEMPERATURE PROBE

MODEL TP-28 REG. $100.00 OUR PRICE $89.95



FEATURES

- Measures temperature with almost any voltmeter - analog or digitell
- Reads in degrees Fahrenheit end Celsius - eelected by switch.
- Resolves to .01° with ±1.7°C or ±3°F.
- Operates for et leest 120 hours on inexpenelve battery.
- Measures temperature of any surface, liquid or ges.
- Dimensions: (HWD)3-1/2"x 2"x 1-1/8" • Weight: 5 oz.
- Cable length 4'. Battery not included.

APPLICATIONS

Locate circuit "hot spots" where components are drawing exceeive current. Ieolate underwattage components. Ensure that componente do not exceed their meximum allowable temperature ratings.
Monitor temperature for environmental tests; monitor cabinet temperature; measuree temperature of walls, floor or ceiling to determine where additional insulation is needed; locate cold eir leeks; check tapweter tempereture; drive chart recorder, for long term temperature measurement.
Add the TP-28 to any enelog or digitel voltmeter end you'll be able to accuretely meeeure temperature from —50°C to +150°C (—58°F to +302°F). Unlike ordinary thermometers, the TP-28 ie fest—a eettling time of 10 seconds will bring eccuracy within 1°C. Even the temperature of emall components (euch ae intergreted circuits, transistors and resistors) can be eccuretely determined.

B&K PRECISION DELUXE PROBES

MODEL PR-40

OUR PRICE $38.00

APPLICATIONS

- For oscilloscopes.
- For frequency counters.

DESCRIPTION

The B&K Precision deluxe probes designed for use with wideband oscilloscopes to 100 mHz. All are lightweight slim-body probes of precision construction.

SPECIFICATIONS

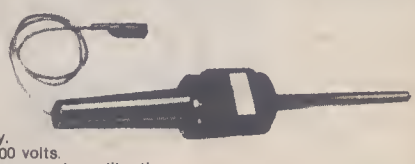
PR-40 **X-10 Position:** Frequency response: 100 mHz, Input Z: 10M ohm; input compensetion 15-40pF. Rise Time: 3.5ns. **X-1 Poeition:** Frequency response: 15 mHz, Input impedance: 1M ohm, plus scope capacity. Rise time: 24ns. **Working Voltage:** X-10, X-1: 500 VAC or 250 VDC plus AC peak. **Connector:** BNC.
PR-45 Same as X-10 for PR-45. except 20p40pF compensation and no X-1 position.

B&K PRECISION HIGH-VOLTAGE DIRECT READING 40K VDC PROBE

MODEL HV-44

REG. $75.00

OUR PRICE $65.00



FEATURES

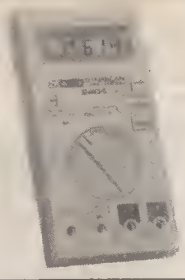
- Extreme reliability and user safety.
- Voltage measurements up to 40,000 volts.
- Calibrated at 25 kV and should never need recalibration.
- Accuracy at 25 kV is ±2% and ±3% at full scale.
- Meter is unaffected by common outsida magnet fields and is highly shock resistant.

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

TEST INSTRUMENTS

B&K PRECISION 3 1/2 DIGIT AUTO OR MANUAL RANGING DIGITAL MULTIMETER

MODEL 2804 **REG. $60.00** **OUR PRICE $49.95** **SPECIAL!**



FEATURES

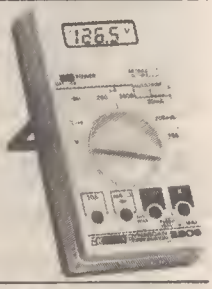
•0.7% DCV accuracy. •500 hours continuous battery life. •Auto-ranging/manual ranging on Volt and Ohm scales. •10 A AC and DC renges. •3 1/2 digit LCD diaplay with annunciators. •Single rotary awitch operetion. •Low-battery indicator. •Diode check. •Audible continuity check. •Dimenelons: D 1.34"x W 3.15"x H 8.81". •Weight: approx. 8 oz. •Complete with test leads, 2 "AA" batteries, spare fuse, and instruction manual, optional carrying case (see below).

DESCRIPTION

The B&K-PRECISION Model 2804 hendheld digital multimeter provides accurete measurements at an economical price. The Model 2804 provides auto-ranging or manuel renge selection when meesuring volts end ohms. DC voltege measurement ranges Include 200 mV, 2000 mV, 20 V, 200 V, and 1000 V. AC voltage ranges Include 2000 mV, 20 V, 200 V, and 750 V. Input Impedance Is 10 Mohm. Ohm renges Include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2000 kohm, and 20 Mohm. The Model 2804 providea menual renge selection for AC and DC amp measurements — 200 mA end 10A. A diode test measures the forward voltage drop of a semi-conductor junction at epproximately 0.8 mA. Reverse drop reads epprox. 1400 counts. Continuity checke ere annuncleted by an audible tone. Power is provided by 2 "AA" type celis; 1.5 V eech. Battery life: 500 hours.

B&K PRECISION 3 1/2 DIGIT AUTO OR MANUAL RANGING DIGITAL MULTIMETER

MODEL 2806 **REG. $75.00** **OUR PRICE $63.75**



FEATURES

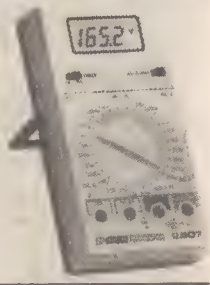
•0.7% DCV accuracy. •500 hours continuous bettery life. •Auto-ranging/manual ranging on Volt and Ohm scales. •10 A AC and DC rangss. •3 1/2 digit LCD display with annunciators. •Single rotary switch operation. •Low-battery indicetor. •Diode check. •Audible continuity check. •Transient end overload protected. •High energy fuse. •Ruggedized cese with aafety-designed test leed system. •Complete with teat leads, 2 "AA" batteries, spere fuse, and instruction manual, Optional carrying case (aee below). •Dimensione: D 1.54 x W 3.46 x H 8.81" (39mm x 88mm x 188mm). •Weight: approx. 1 lb.

DESCRIPTION

The B&K-PRECISION Model 2806 handheld digitel multimeter Is en economical 3 1/2 digit DMM that is ideally suited for field, shop and hobby epplications. The Model 2806 providee auto-ranging or manuel range eelection when measuring volts and ohms. DC voltege measurement ranges Include 200 mV, 2000 mV, 20 V, 200 V, and 1000 V. AC voltege renges Include 2000 mV, 20 V, 200 V, and 750 V. Input impedance Is 10 Mohm. Ohm ranges include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2000 kohm, and 20 Mohm. The Model 2806 provides menuel range selection for AC end DC amp meesurementa. Ranges are 200 uA, 2000 uA, 20 mA, 200 mA, and 10 A. A diode test msesures the forward voltage drop of a semi-conductor junction at approximately 0.8 mA. Reveree drop reads approx. 1400 counts. Continuity checks are annuncleted by an audible tone. The 2806 is overload end transient protected. A high energy fuse Is incorporated In ths unit. Power Is provided by 2 "AA" type cells; 1.5 V each. Bettery life: 500 hours.

B&K PRECISION 3 1/2 DIGIT AUTO OR MANUAL RANGING DIGITAL MULTIMETER

MODEL 2807 **REG. $115.00** **OUR PRICE $97.75**



FEATURES

•0.5% DCV eccurecy. •500 hours continuous battery life. •Auto-ranging/manual renging on Volt and Ohm scelee. •10 A AC and DC rangea. •Convenient single rotery switch function/range selector. •3 1/2 digit LCD displey with annunciators. •Low-battery indicator. •Diode check. •Audible continuity check. •Transisnt and overloed protected. •High energy fuse. •Ruggedized case with safety-deelgned test lead system. •Complete with test leads, 2 "AA" batteries, spare fuse, and Inetruction manuel, optionel carrying case (see below). •Dimensions: D 1.54" x W 3.46" x H 8.81" (39mm x 88mm 168mm).

DESCRIPTION

The B&K-PRECISION Model 2807 Is a full function handheld digital multimeter thet providss 0.5% DCV eccuracy, overload end transient protection, diode check, audible continuity check, and convenient single rotary ewitch to meet a wide variety of applications. The Model 2807 provides auto-ranging or manuel range selection when measuring volts and ohms. DC voltage measurement ranges Include 200 mV, 2000 mV, 20 V, 200 V, and 1000 V. AC voltege ranges Include 200 mV, 2000 mV, 20 V, 200 V, end 750 V. Input Impedance Is 10 Mohm. Ohm rangss include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2000 kohm, end 20 Mohm. The Model 2807 provides manual range aelection for AC end DC amp measurements. Rangas ara 200 uA, 2000 uA, 20 mA, 200 mA, and 10 A. A diode test msesures tha forward voltage drop of e eemi-conductor junction at approximatsly 0.8 mA. Reverse drop reeds approx. 1400 counts. Continuity chacks are annunclated by an audlbla tone. The 2807 Is ovarload and translant protacted. A high energy fuse Is Incorporated In the unit. Power is provided by 2 "AA" type cells; 1.5 V each. Battery lifa: 500 hours.

B&K PRECISION 3 1/2 DIGIT AUTO OR MANUAL RANGING DIGITAL MULTIMETER

MODEL 2816 **REG. $150.00** **OUR PRICE $127.50**

FEATURES

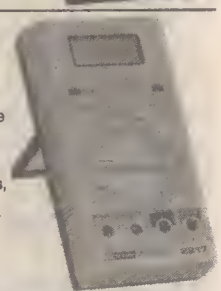
•0.25% DCV eccuracy. •500 hours continuous battery life. •Auto-ranging/menuel ranging on Volt and Ohm ecales. •10 A AC and DC rangas. •Convanient single rotary switch function/renge selector. •3 1/2 digit LCD display with annuncletore. •Low-bettery indicator. •Diode chack. •Audible continuity chack. •Transient and overload protectad. •High energy fuse. •Ruggedized case with eefety-designad test lead system. •Compieta with test laade, 2 "AA" battarles, epare fusa, end instruction manual, optionel carrying case (see below). •Dimensions: D 1.54" x W 3.46" x H 6.81" (39mm x 68mm x 168mm) •Weight: Approx 1 lb.

DESCRIPTION

The B&K-PRECISION Model 2816 Ia e full function hendhald digitel multimatar that providaa 0.25% DCV accuracy, overload and transient protection, diode check, audible continuity check, and convenlant single rotary switch to meat a wide variety of applications. Tha Model 2818 providee auto-ranging or manual renge selection when measuring volts and ohms. DC voltage measurament renges Included 200 mV, 2000 mV, 20 V, 200 V, and 1000 V. AC voltege ranges Include 200 mV, 2000 mV, 20 V, 200 V, and 750 V. Input Impadance Is 10 Mohm. Ohm renges Include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2000 kohm, and 20 Mohm. Tha Modal 2818 providss manual renge selection for AC end DC amp msesuraments. Ranges ara 200 uA, 2000 uA, 20 mA, 200 mA, and 10 A. A dioda tsst measures the forward voltege drop of e semi-conductor junction et epproximately 0.6 mA. Raversa drop reads approx. 1400 counts. Continuity checks ara annunclated by an audlbla tona. The 2816 Is overload and trensient protected. A high energy fuse Ie incorporated In the unit. Powar Is provided by 2 "AA" typa cells; 1.5 V each. Battery ilfa: 500 hrs.

B&K PRECISION 3½ DIGIT PEAK HOLD DIGITAL MULTIMETER

MODEL 2817-B **REG. $175.00** **OUR PRICE $148.75**



FEATURES

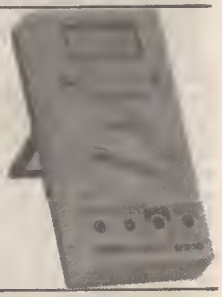
•0.1% DCV eccurecy •1000 hours continuous battery life •Peak Hold on Volt and Amp scalas •10A AC and DC renges •3½ digit LCD display with ennunciators •Single rotery switch operetion •Low-battery indicator •Diode chack •Audlbla continuity check •Transient and overload protected •High energy fuea •Ruggedized case with sefety-designed tsst leed eystem •Complete with test leeds, battary spare fusa and instruction manual, optional carrying casa (sea below). Dimansions: D 1.54"x W 3.48"x H 6.61". Weight: 1 lb.

DESCRIPTION

The B & K PRECISION Model 2817 is e full function hendheld digital multimater thet provides 0.1% DCV accurecy, paak hold for maasuring current and voltega surges, audible continuity chack, diode check, overload end transient protection, and convenlant single rotary switch to meet e wide variety of applications.
The Model 2817 provides menuel range selection for ell functions. DC voltage meaaurement rangas Include 200 mV, 2 V, 20 V, 200 V, and 1000 V. AC voltage ranges Include 200 mV, 2 V, 20 V, 200 V, and 750 V.
Input Impedance Is 10 Mohm. Ohm rangas Include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2 Mohm, and 20 Mohm. AC and DC currant rangee include 200 uA, 2mA, 20 mA, 200 mA, and 10 A. A diode test maasures tha forward voltaga drop of a semiconductor junction et approximetely 0.8 mA. Reverse drop reads approximetely 1400 counte. Continuity checks are annuncleted by an audible tone. The 2817 Ie ovarload and transient protected. A high energy fuse Ia Incorporated In the unit. Power is provided by e 9 V battery (NEDA 1804) type.

B&K PRECISION 3½ DIGIT TRUE RMS PEAK HOLD DIGITAL MULTIMETER

MODEL 2818 **REG. $215.00** **OUR PRICE $182.75**



FEATURES

•0.1% DCV Accurecy •1000 houre continuoue battery life •True RMS-sansing AC Volt and Amp Ranges •Peek Hold on Volt and Amp Scales •10A AC and DC ranges •3½ digit LCD display with annunciatora •Single rotary switch operaton •Low-battary indicator •Diode check •Audible continuty chack •Transient and overload protactad •High energy fuse •Ruggedizad ceee with safety-designed test lead eystam •Complete with tast laede, battery, epara fuse and instruction menuel, optional carrying cese (see below). Dimansions: D 1.54"x W 3.48"x H 6.81". Weight: 1 ib.

DESCRIPTION

The B&K PRECISION Model 2818 Is a full function digital multimeter that provides 0.1% DCV accuracy, True RMS AC voltage and current readings, paak hold for measuring current and voltage surges, audible continuity check, dioda chack, overload and transient protection, and convenient single rotary switch to meat e wida variaty or applications. The Model 2818 provides manual range selection of all functions. DC voltage maasuremant ranges Include 200 mV, 2 V, 20 V, 200 V, and 1000 V. AC voltage ranges includs 200 mV, 2 V, 20 V, 200 V, and 750 V. Input impadenca Is 10 M ohms. Ohm ranges Include 200 ohm, 2 kohm, 20 kohm, 200 kohm, 2 Mohm and 20 Mohm. AC and DC current ranges Include 200 uA, 2 mA, 20 mA, 200 mA, end 10 A. A diods test measuras the forward voltage drop of a semiconductor junction et epproximetely 0.6 mA. Raverse drop reeds epproximataly 1400 counts. Continuity chacks ara annunciated by an audible tone. The 2818 Ie overloed and transient protected. A high energy fuse Is incorporeted in tha unit. Power Ie providad by a 9 V battery (NEDA 1604) type.

THESE OPTIONAL ACCESSORIES APPLY TO MODELS ABOVE

Carrying Case, model LC-110	Our Price $23.00	Rsplacement Test Leads, model FP-30	Our Price $15.00
Demodulator Probe, model PR-23	Our Price $30.00	Temperature Probe, model TP-28	Our Price $84.75
Isolation Direct Probe, model PR-21	Our Price $25.00	Thermocouple Temperature Probe, model TP-30	Our Price $84.75

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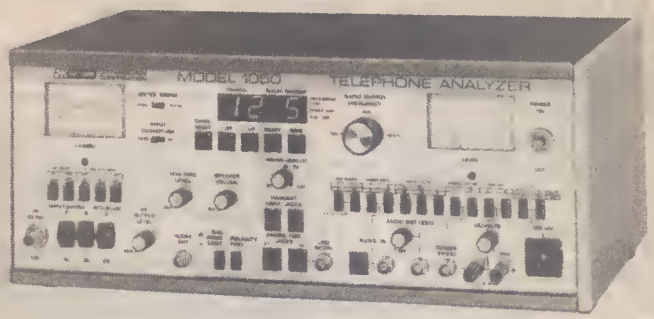
B&K PRECISION TELEPHONE PRODUCT ANALYZER

MODEL 1050 REG. $1695.00 OUR PRICE $1445.75



FEATURES:
- For diagnostic testing, servicing and calibration of corded and cordless telephones, answering machines and automatic dialers.
- Measures r-f frequency error and modulation deviation in cordless phone systems.
- Measures relative r-f power levels and receiver sensitivities in cordless phone systems with the use of an external antenna (optional).
- Verifies pulse and Touch-Tone® numbers-even for high-speed auto-dialers.
- Provides continuity check of telephone and handset cords.
- Power-line load simulator provided for base portion of cordless phones.
- Includes audio generator outputs for guardtone and voice simulation.
- Provides adjustable ring voltage generator. • Monitors audio input and output.
- Built-in adjustable dc power supply for powering of units under test and repair.

DESCRIPTION

The B&K PRECISION Model 1050 Telephone system Analyzer provides maximum service and testing capability for telephone products. All transit frequencies are crystal controlled (phase-locked loop) and cover existing and proposed future channel assignments.
The transmitter can be modulated by two internal audio frequency generators simultaneously (for "guard tone" + audio tone) or by external sources for dual guard tone and voice applications. ® Touch-Tone is a trademark of AT&T

SPECIFICATIONS

TRANSMITTER: Frequency selection: 2-digit dedicated channel selection. **Generating system:** Crystal-controlled phase-locked loop. **Output level:** continuously variable plus step attenuation. **RF temperature stability:** ±0.001% (10 ppm). **Modulation/Bandwidth:** FM/100 Hz to 10 kHz, ±3 db, 1 kHz ref. **Modulation Deviation:** 0 to ±10 kHz adjustable. **Deviation Display:** analog meter, 0 to ±3 kHz and 0 to ±10 kHz ranges, ±5% of full scale Output provided for oscilloscope. **RECEIVER: Frequency selection:** same as transmitter. **Frequency error:** Compared to selected channel frequency, displayed on analog meter 0 to 3 kHz and 0 to 10 kHz ranges. **Modulation of received RF:** displayed on analog meter. **Guard tone rejection:** Filter + switch allow observation or rejection of guard tone modulation. **Deviation/audio monitoring:** output provided for oscilloscope; Analog metering plus built-in speaker with volume control. **AUDIO OUTPUT: Range:** 100 Hz to 10 kHz, continuously variable. **Output:** 0 to 1V, continuously variable. **Short-term Stability:** ±0.1% ±1 Hz **Impedance:** 600 ohms ±10%. 1 **kHz GENERATOR: Use:** Provide modulation signal for internal f-m transmitter, if selected. **Accuracy:** ±20% **Distortion:** 0.8% max. **LEVEL METER: Selection:** Pushbutton switches. **Measures:** AUDIO OUTPUT—0-3 mV, 0-100 mV & 0-1 V (rms), AUDIO INPUT—0-1 V, 0-10 V (rms). TELEPHONE LINE AUDIO—0-1 V, 0-10 V (rms). DCV SUPPLY OUTPUT—0-5 V, 0-10 V RF DEMODULATOR PROBE INPUT—01, · 0-10 V INTERNAL DUMMY-LOAD—01-V, · 0-10 V (rms) **Accuracy:** ±5% full scale. **Impedance:** 1 Mohm ±10% **Freq. Response:** 45 Hz to 20 kHz, ±3dB. **dBm Scales:** provided for AC functions (1 mV, 600 ohm ref.) **DCV OUTPUT: Range:** 0 to 10 V, continuously variable. **Current:** 0 to 100 mA, overload current limited. 120 **VAC AT LOAD JACK: Use:** supplies power for cordless telephone base station and provides line load simulator for RF output tests. **Current:** 1/4 A max. (fused). **RING GENERATOR: Frequency:** 20 Hz **Voltage Range:** 35-100 V continuously variable, with one ringer equivalent load. **DC Line Voltage:** 48 V ±15%. **Connector:** Modular RJ-11 style, 4 contact. **CONTINUITY TESTER:** Detects "shorts" and "opens" of both telephone and handset cords. **AUTOMATIC NUMBER IDENTIFICATION:** Detects and decodes numbers dialed. Pulse type and DTMF **GENERAL: Display:** 7 segment LED, 0.43" height (Channel/Dialed Number) **Operating Temperature:** 0° to 40°C (32° to 104°F). **Power:** 105 to 130V, 80 Hz, 40 VA. **Dimensions** (HxWxD): 19 x 45 x 29 cm (7.3x17.8x11.6") **Weight:** 9.5 kg (21 lbs.)

B&K PRECISION TELEPHONE LINE ANALYZER

MODEL 1045 REG. $395.00 OUR PRICE $335.75

FEATURES
- Provides basic operation feefe for corded and cordless telephones, answering machines and automatic dialers.
- Checks telephone line cords and handset cords for continuity, shorts and intermittents.
- Verifies number dialed and redialed for pulse or touch-tone telephones. • Low and normal level ring test sequence.
- Can be used by the consumer without the aid of a salesperson-an easy-to-follow instruction card is provided with the tester.
- Can be used by the salesperson to demonstrate operation and features of telephone products and to screen returns before making an exchange.
- Dimensions: (HWD) 3.2"x 11.3"x 7.8". Weight: 2.8 lbs.

DESCRIPTION

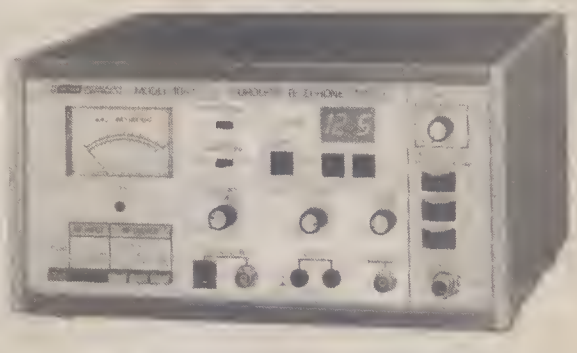
The B&K PRECISION Telephone Product Test Model 1045 provides positive proof of telephone product operation-corded and cordless telephones, answering machines, and auto-dialers...at an affordable price. The Model 1045 test telephone products just as if they were connected to a telephone line. Dial tones, ring-back tones, ringing signals, and provision for two-way conversations enable testing and demonstrating telephone products as if in actual use.

TEST FUNCTIONS

Telephone Line Cord: Continuity, intermittent, shorts. **Handset Cord:** Continuity, intermittent, shorts. **Dial (Tone and Pulse)** Number dialed, redial function. **Voice/Dial Level:** Indicator, light flashes for positive proof. **Ring:** Low and normal level ring sequence. **Voice Quality:** Can perform two-way conversation using two telephones. **Cordless Telephones:** Complete functional test. **Answering Machine:** Basic operational tests—Complete functional test using auxiliary phone. **Automatic Telephone Dialer:** Verifies number put into dialer — Verifies number dialed by automatic dialer — "Slows down" high speed dialer output (to 2 per second) for easy number verification.

B&K PRECISION CORDLESS TELEPHONE TESTER

MODEL 1047 REG. $895.00 OUR PRICE $760.75



FEATURES:
- Tests the base and portable unit of cordless telephones.
- Measures frequency error and modulation deviation of received r-f signals.
- f-m Signal deviation of output signal can be monitored and is adjustable.
- Transmitter can be modulated by an internal audio frequency generator (1 kHz) or by external sources.
- Adjustable audio frequency generator level (1 kHz) also available for external use.
- All radio frequencies are crystal-controlled (phase locked loop).

DESCRIPTION

The B&K PRECISION Model 1047 provides servicing and calibration capability for cordless telephones. The unit can be used with existing and proposed future cordless telephone frequency designations.

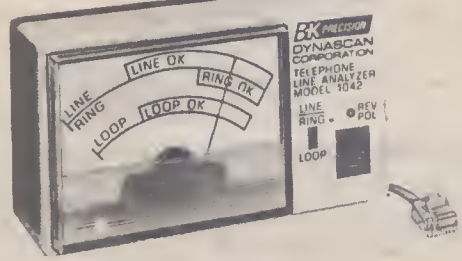
SPECIFICATIONS

TRANSMITTER Frequency selection: 2-digit dedicated channel selection. **Generating system:** Crystal-controlled phase-locked loop. **Output level:** continuously variable plus step attenuation. **RF temperature stability:** 0.001% (10 ppm). **Modulation/Bandwidth:** FM/400 Hz to 10 kHz 3 db, 1 kHz ref. **Modulation Deviation:** 0 to 10 kHz adjustable. **Deviation Display:** analog meter, 0 to 3 kHz and 0 to 10 kHz ranges, 5% of full scale Output provided for oscilloscope. **RECEIVER Frequency selection:** same as transmitter. **Frequency error:** Compared to selected channel frequency displayed on analog meter 0 to 3 kHz and 0 to 10 kHz ranges.
Modulation of received RF: displayed on analog meter. **Guard tone rejection:** Filter + switch allow observation or rejection of guard tone modulation. **Deviation/audio monitoring:** output provided for oscilloscope; Analog metering plus built-in speaker with volume control. 1 kHz GENERATOR Use: Provide modulation signal for internal f-m transmitter, if selected. **Accuracy:** 10% **Distortion:** 0.8% max. **GENERAL: Connectors** Phone-modular RJ-11 style (4 contact) Audio out—dual banana RF and Oscilloscope: BNC. **Display:** 7 segment L.E.D.'s, 0.43" height (Channel) **Operating Temperature:** 0° to 40°C (32° to 104°F) **Power:** 105 to 130 V, 60 Hz **Dimensions** (HxWxD): 15.25 x 30.5 x 28 cm (6x12x11") **Weight:** 5.45 kg (12 lbs.)

B&K PRECISION TELEPHONE LINE ANALYZER

MODEL 1042 REG. $19.95 OUR PRICE $17.95

NEW!



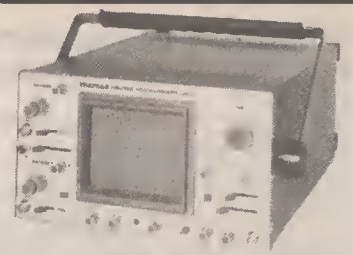
FEATURES
- Provides fast indication of telephone line parameters that effect telephone operation.
- Easy-to-use.
- No batteries to replace; no external power required.
- Verifies telephone line polarity that can effect polarity sensitive telephones.
- Verifies ring and line voltage levels.
- Checks condition of telephone line from Central Office to user's telephone jack.
- Can be used to verify basic telephone functions.
- Can be used to test condition of telephone line cord.
- Dimensions: (HWD) 2.75"x 5" x 1.5". • Weight: 7.5 oz.

TEST INSTRUMENTS

LEADER 20-MHz DUAL TRACE OSCILLOSCOPE

MODEL LBO-522

REG. $795.00 OUR PRICE $549.95



FEATURES

•500 uV Sensitivity. •Variable Hold-off. •6 x 10 cm Display with Internal Graticule. •Alternate Triggering.

DESCRIPTION

The LBO-522 is an economical 20 MHz oscilloscope versatile enough for almost any lab or field work within its frequency range. The input sensitivity of 0.5 millivolts allows observation of extremely low level signals easily on its 6 x 10 cm rectangular CRT equipped with an internal graticule. Alternate triggering provides a stable display of two waveforms, unrelated in frequency, simultaneously. The unit features a full range of triggering controls including HF reject to filter unwanted noise from the display and line triggering for the observation of line frequency related signal components. A CH-1 rear panel output is standard which permits using the LBO-522 as a sensitive, accurate preamplifier to drive other less sensitive instruments. The units "human engineered" front panel ensures easy, error-free operation.

SPECIFICATIONS

VERTICAL DEFLECTION—Bandwidth: (—3 dB, 6 cm): DC: DC to 20 MHz, AC: 10 Hz to 20 MHz. **Rise Time:** 17.5 ns. **Deflection Coefficients:** 5 mV/cm to 5 V/cm in 10 calibrated steps, 1-2-5 sequence, continuously variable between steps. 0.5 mV/cm by X10 magnifier to 5 MHz. **Accuracy:** ±3% (0-40°C), ±5% with X10 mag. **Input Impedance:** 1 M ohm, 30 pF. **Maximum Input:** 600 V (DC plus AC peak). **Display Modes:** CH-1, CH-2, alternate, chop, add, subtract (CH-2 invert). **Output:** CH-1 output on rear panel of 0.1 V/cm deflection. **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE)—Input:** Via CH-1 vertical amplifier. **Bandwidth (-3 dB, 8cm):** DC: DC to 1 MHz. AC: 10 Hz to 1 MHz. **Rise Time:** 350 ns. **Phase Shift:** Less than 3° at 100 kHz. All other external horizontal deflection specifications are identical to vertical deflection. **INTERNAL HORIZONTAL DEFLECTION (SWEEP MODE)—Deflection Coefficients (Sweep Rate):** 0.2 us/cm to 0.2 s/cm in 19 calibrated steps, 1-2-5 sequence, continuously variable between steps. **Magnifier:** Times 5 magnifier extends maximum sweep rate to 40 ns/cm. **Accuracy:** ±3% (±5% with magnifier). **TRIGGERING—Sources:** CH-1, CH-2, alternate, line, external. **Modes:** Auto. Normal. **Coupling:** AC, HF rej, TV-V, TV-H. **Slope:** + or −. **Sensitivity: Bandwidth:** Norm 30 Hz-10MHz 2Hz-20MHz. Auto 30Hz-10MHz 30Hz-20MHz. **Internal:** Norm 0.5 div. 1.5 div. Auto 0.5 div. 1.5 div. **External:** Norm 0.2 Vp-p. 0.6 Vp-p. Auto 0.2 Vp-p. 0.6 Vp-p. **External Input:** Maximum Input: 600 V (DC plus AC peak). **Hold-off:** Variable sweep hold-off control permits stable triggering on complex waveforms. **Z-AXIS (INTENSITY) MODULATION—Input Level:** TTL compatible. **Maximum Input:** 50 V p-p. **INTERNAL CALIBRATOR—Output Level.** 0.5 V p-p, ±2%. **Waveshape.** Square wave, 1 kHz, nominal. **CRT DISPLAY—Phosphor:** P31. **Graticule:** Internal, illuminated, 6 x 10 cm, rectangular. **Accelerating Potential:** 2 kV. **Trace Alignment:** Front panel trace rotation control. **POWER REQUIREMENTS—**115/240 VAC ±13%, 50 to 60 Hz, 55 W. **PHYSICAL—Size (WHD):** 11-3/8 x 6-7/8 x 14-3/4". (290 x 160 x 375 mm.) **Weight:** 16.5 lbs. **SUPPLIED ACCESSORIES—** Instruction Manual. Type LP-16AX switchable X1/X10 Probes. **AVAILABLE ACCESSORIES—**LP-2013 Probe Pouch. LC-2014 Protective Front Cover. LH-2015 Viewing Hood. LRA-508 Rack Mount Adaptor.

LEADER 35 MHz OSCILLOSCOPE

MODEL LBO-523

REG. $895.00 OUR PRICE $749.95 **SPECIAL!**

FEATURES

•7 kV Accelerating Potential. •Auto Focus. •500 uV Sensitivity.

DESCRIPTION

The LBO-523 is a 35 MHz Oscilloscope economically designed for applications requiring medium bandwidth and extensive triggering facilities where costly features such as delayed sweep and signal delay lines are impractical. Trigger controls include variable hold-off, alternate channel triggering, HF reject, vertical and horizontal TV coupling and line source triggering. The vertical input sensitivity of 0.5 mV, add and subtract modes and a CH-1 output connector add to the units total capability. Complex waveforms can be viewed easily even at highest sweep rates without readjusting the front panel controls due to its bright PDA CRT with 7 kV accelerating potential and an auto focus feature. The LBO-523 is well suited for many design, production, repair and educational test requirements.

SPECIFICATIONS

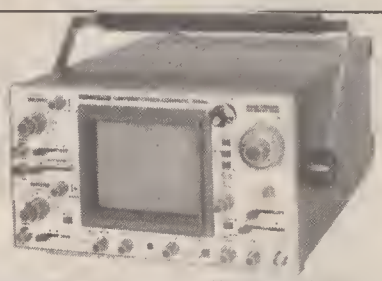
VERTICAL DEFLECTION—Bandwidth: (—3 dB, 6 cm): DC: DC to 35 MHz. AC: 10 Hz to 35 MHz. **Rise Time:** 10.0 ns. **Deflection Coefficients:** 5 mV/cm to 5 V/cm in 10 calibrated steps. 1-2-5 sequence, continuously variable between steps. 0.5 mV/cm by X10 magnifier. **Accuracy:** ±3% &0-40°C), ±5% with X10 magnifier. **Input Impedance:** 1 M ohm, 30 pF. **Maximum Input:** 600 V (DC plus AC peak). **Display Modes:** CH-1, CH-2, alternate, chop, add, subtract (CH-2 invert). **Output:** CH-1 output on rear panel of 0.1 mV/cm deflection. **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE)—Input:** Via CH-1 vertical amplifier. **Bandwidth:** (—3 dB, 6 cm): DC: DC to 1 MHz. AC: 10 Hz to 1 MHz. **Rise Time:** 350 ns. **Phase Shift:** Less than 3° at 100 kHz. All other external horizontal deflection specifications are identical to vertical deflection. **INTERNAL HORIZONTAL DEFLECTION (SWEEP MODE)—Deflection Coefficient (Sweep Rate) 0.2 us/cm to 0.2 S/cm in 19 calibrated steps, 1-2-5 sequence, continuously variable between steps. Magnifier:** Times 10 magnifier extends maximum sweep rate to 20 ns/cm. **Accuracy:** ±3% (±5% with magnifier). **TRIGGERING—Sources:** CH-1, CH-2, alternate, line external. **Modes:** Auto. Normal. **Coupling:** AC, HF, REJ, TV-V, TV-H. **Slope:** + or −. **Sensitivity: Bandwidth:** Norm 30Hz-10MHz. 2Hz-20MHz. Auto 30Hz-10MHz. 30Hz-20MHz. **Internal:** Norm 0.5 div. 1.5 div. Auto 0.5 div. 1.5 div. **External:** Norm 0.2-Vp-p. 0.6 Vp-p. Auto 0.2 Vp-p. 0.6 Vp-p. **External Input:** Maximum Input: 600 V (DC plus AC peak). **Hold-Off:** Variable sweep hold-off control permits stable triggering on complex waveforms. **Z-AXIS (INTENSITY) MODULATION—Input Level:** TTL compatible. **Maximum Input:** 50 V p-p. **INTERNAL CALIBRATOR—Output Level:** 0.5 V p-p, ±2%. **Waveshape:** Square wave, 1 kHz, nominal. **CRT DISPLAY—Phosphor:** P31. **Graticule:** Internal, illuminated, 6 x 10 cm, rectangular. **Accelerating Potential:** 7 kV/2kV. **Trace Alignment:** Front panel trace rotation control. **POWER REQUIREMENTS—**115/240 VAC ±13%, 50 to 60 Hz, 55 W. **PHYSICAL—Size (WHD):** 11-3/8 x 6-7/8 x 14-3/4". (290 x 160 x 375 mm.) **Weight:** 16.5 lbs. **SUPPLIED ACCESSORIES—**Instruction Manual. Type LP-16AX switchable X1/X10 Probes. **AVAILABLE ACCESSORIES—**LP-2013 Probe Pouch. LC-2014 Protective Front Cover. LH-2015 Viewing Hood. LRA-508 Rack Mount Adaptor.

LEADER 40 MHz DUAL TRACE TIME BASE OSCILLOSCOPE

MODEL LBO-524 **REG. $995.00 OUR PRICE $799.95**

MODEL LBO-524L **REG. $1050.00 OUR PRICE $869.95**

SPECIAL!



FEATURES

•500 uV Sensitivity. •Calibrated Delayed Time Base. •Alternate Triggering. •CH-1 Output.

DESCRIPTION

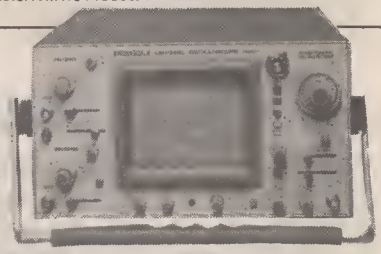
The LBO-524 is designed to meet a broad range of applications in design, testing and servicing of both analog and digital circuits and equipment. Its large 6 x 10 cm PDA CRT provides sharp bright displays even at highest sweep rates. Comprehensive triggering controls including holdoff, alternate triggering and delayed sweep triggered functions permit stable displays for even the most complex signals. With 0.5 millivolt sensitivity, extremely low level signals can easily be observed. A channel 1 output is available on the rear panel to drive other less sensitive instruments such as a frequency counter with an input level as low as 500 microvolts. The dual time base permits accurate observation and time interval measurements of complex waveforms. The Model LBO-524L is also equipped with signal delay lines to allow observation of pre-trigger information.

SPECIFICATIONS

VERTICAL DEFLECTION—Bandwidth: (—3 dB, 6 cm) DC: DC to 35 MHz. AC: 10 Hz to 1 MHz. **Rise Time:** 10 ns. **Signal Delay:** 140 ns. **Deflection Coefficients:** 5 mV/cm to 5 V/cm in 10 calibrated steps, 1-2-5 sequence, continuously variable between steps; 0.5 mV/cm by X10 magnifier to 5 MHz. **Accuracy:** ±3% (0-40°C). ±5% with X10 MAG on. **Input Impedance:** 1M ohm, 30 pF. **Maximum Input:** 600 V (DC plus AC peak). **Signal Delay (LBO-524L only):** 140 ns. **Display Modes:** CH-1, CH-2, alternate, chop, add, substract (CH-2 invert). **Output:** CH-1 output on rear panel of 0.1 mV/cm deflection. **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE)—Input:** Via CH-1 vertical amplifier. **Bandwidth (-3dB, 10 div.):** DC: DC to 1 MHz. AC: 10 Hz to 1 MHz. **Rise Time:** 350 ns. **Phase Shift:** less than 3° at 100 kHz. All other external horizontal deflection specifications are identical to vertical deflection. **INTERNAL HORIZONTAL DEFLECTION—Display Modes:** Main time base, main time base intensified by delayed time base, delayed time base, delayed time base triggered. **Main Time Base:** 0.2 us/div to 0.2 S/div in 19 steps, 1-2-5 sequence, continuously variable between steps. **Delayed Time Base:** 0.2 us/div to 0.5 ms/div in 11 steps, 1-2-5 sequence. **Magnifier:** Times 20 magnifier extends maximum sweep rate to 20 ns/div. **Accuracy:** ±3% (±5% with magnifier). **MAIN TIME BASE TRIGGERING—Sources:** Internal CH-1 and CH-2, Alternate, Line External. **Modes:** Auto. Normal. **Coupling:** AC, Hf rej, TV-V, TV-H. **Slope:** + or −. **Sensitivity: Bandwidth:** Norm 30Hz-10MHz. 2Hz-35MHz. Auto 30Hz-10MHz. 30Hz-35MHz. **Internal:** Norm 0.5 div. 1.5 div. Auto 0.5 div. 1.5 div. **External:** Norm 0.2 Vp-p. 0.6 Vp-p. Auto 0.2 Vp-p. 0.6 Vp-p. **External Input:** Maximum Level: 600 V (DC plus AC peak). **Hold-Off:** Variable sweep hold-off control permits stable triggering on complex waveforms. **DELAYED TIME BASE TRIGGERING—Modes:** Immediate: delayed time base begins immediately after delay time. Triggered: delayed time base begins on the first trigger after the delay time. **Z-AXIS (INTENSITY) MODULATION—Input Level:** TTL compatible. **Maximum Input:** 50 V p-p. **INTERNAL CALIBRATOR—Output:** 0.5 V p-p, ±2%. **Wave Shape:** Square wave, 1 kHz nominal. **CRT DISPLAY—Phosphor:** P31. **Graticule:** Internal, illuminated 6 x 10 div (1 div = 1.0 cm). **Accelerating Potential:** 7 kV and 2 kV (post deflection). **Trace Alignment:** Front panel trace rotation control. **POWER REQUIREMENTS—**117 VAC, ±13%, 50 to 60 Hz, 50W. **PHYSICAL—Size (WHD):** 11-3/8 x 6-1/4 x 14-3/4" (290 x 160 x 375 mm). **Weight:** 16.5 lbs. **SUPPLIED ACCESSORIES—**Instruction Manual. Two (2) Type LP-16AX switchable. X1/X10 Probes. **AVAILABLE ACCESSORIES—**LP-2013 Probe Pouch. LC-2014 Protective Front Cover. LH-2015 Viewing Hood. LRA-508 Rack Mount Adaptor.

LEADER 50 MHz TWO CHANNEL DUAL TIME BASE OSCILLOSCOPE

MODEL LBO-525L **REG. $1195.00 OUR PRICE $989.95**



FEATURES

• Alternate Triggering. • 600V (dc + ac Peak) Max. Input. • Dimensions: (WHD) 11-3/6"x 6-1/4"x 14-3/4". • Weight: 21 lbs.

DESCRIPTION

The LBO-525L is a simple-to-operate 50 MHz two channel oscilloscope that still offers all of the flexibility and advanced features required for critical applications. The LBO-525L has a true calibrated delayed time base with both run after A end trigger after A modes for jitter-free operation. 500 uV maximum sensitivity and 20 ns maximum sweep speed allow analysis of low level and high frequency signals, while still offering a maximum input rating of 600 V (dc plus ac peak). The LBO-525L has an illuminated internal graticule for precise measurements and photography and 12 kV CRT accelerating potential for maximum trace intensity even when observing transients at high sweep speeds.

SPECIFICATIONS

VERTICAL DEFLECTION: Bandwidth: (-3 dB) dc: dc to 50 MHz. ac: 10 Hz to 50 MHz. **Rise Time:** 7 ns. **Signal Delay:** 20 ns approximate. **Deflection Coefficients:** 5 mV/cm to 5 V/cm in 10 calibrated steps, 1-2-5 sequence, continuously variable between steps: 0.5 mV/cm by 10X magnifier to 5 MHz. **Accuracy (0-40°C):** ±3%, ±5% with X10 MAG on. **Input Coupling:** AC, GND, DC. **Input Impedance:** 1 M ohm ± 1.5%, 30pF ± 5 pF. **Maximum Input:** 600 V (dc plus ac peak). **Display Modes** CH-1, Ch-2, alternate, chop, add, subtract (CH-2 invert). **Display Modes:** CH-1, Ch-2, alternate, chop, edd, subtract (CH-2 invert). **Output:** CH-1 output on rear panel, 0.1 mV per cm of CRT deflection (50 ohm termination). **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE): Input:** Via CH-1 vertical amplifier. **Bandwidth (-3 dB): DC:** DC to 1 MHz., ac: 10 Hz to 1 MHz. **Phase Shift:** less than 3% at 100 kHz. All other external horizontal deflection specifications are identical to vertical deflection. **INTERNAL HORIZONTAL DEFLECTION: Display Modes:** Main time base, main time base intensified by delayed time base, delayed time base, delayed time base triggered. **Main Time Base:** 0.5 us/cm to 0.2 s/cm in 19 steps, 1-2-5 sequence, continuously variable between steps. **Delayed Time Base:** 0.2 us/cm to 0.5 ms/cm in 11 steps, 1-2-5 sequence. **Magnifier:** Times 10 magnifier extends maximum sweep rate to 20 ns/div. **Delay Time Jitter:** 1 part in 5,000. **Delay Time Dial Accuracy:** ±3%. **Accuracy:** ±3%., ±5% with X10 MAG on. **Power Requirements:** 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz, 55W. **Accessories supplied:** Instruction manual, 2 type LP-050X X10 probes.

LEADER 4 MHz BANDWIDTH COMPACT 3" PORTABILITY

MODEL LBO-310A

REG. $305.00 OUR PRICE $239.95 SPECIAL!

FEATURES

- DC to 4 MHz vertical bandwidth. • 20 mV sensitivity, Z axis modulation. • AC/DC coupled vertical input.
- Monitors waveforms to 450 mHz on direct connection et 10 vp-p or better. • 10 Hz to 100 kHz, sweep range, 4 steps, continuously adjustable.
- Bright, easy-to-reed display. • Use in multiples to broaden display capability.

DESCRIPTION

The LBO-310A is a compact, general purpose instrument designed to provide long, reliable service in production test, repair, and educational applications. Its simple front panel with e minimum of controls makes it ideel for use by production personnel, students, and non-technical operators. Its low cost opens up many applicetions where weveform monitoring might otherwise be economically prohibitive.

SPECIFICATIONS

VERTICAL DEFLECTION Bendwidth (-3 dB, 4 div) DC: DC to 4 MHZ., AC: 2 Hz to 4 MHz. **Input Sensitivity Control:** x100, x10, x1 end varieble (20 mV max.). **Input Impedence:** 1Mohm, 40 pF. **Direct CRT Drive:** 10V p-p senaitivity up to 100 MHz. **EXTERNAL HORIZONTAL DEFLECTION Bendwidth (-3 dB, 10 div):** DC to 250 kHz. **Input Sensitivity:** 300 mV/div. **INTERNAL HORIZONTAL DEFLECTION (Sweep Mode) Sweep Type:** Recurrent. **Sweep Retee:** 10 Hz to 100 kHz, four ranges. **Z-AXIS (INTENSITY) MODULATION Sensitivity:** 20V p-p. **CRT DISPLAY Aree:** 8 x 10 div, 1 div = 6 mm. **Accelereting Potentiel:** 1200V. **Phosphor:** P 1. **POWER REQUIREMENTS:** 100, 120, 200, 220, 240 VAC ± 10%, 50/60 Hz, approx. 12 VA. **Dimenelons:** (WHD) 5"x 7-1/2"x 12". **Weight:** 8.8 lbs. **Acceeaorlee Supplied:** Instruction menuel, three test leads.

LEADER 15-MHz SINGLE AND DUAL TRACE HIGH-SENSITIVITY OSCILLOSCOPES

MODEL LBO-513A

REG. $470.00 OUR PRICE $399.95 SPECIAL!

MODEL LBO-514A

REG. $595.00 OUR PRICE $469.95

LBO-513A

LBO-514A

FEATURES

- 1 m/V Sensitivity. • 5" CRT. • 0.1 ue Sweep Speed. • X-Y Mode.

DESCRIPTION

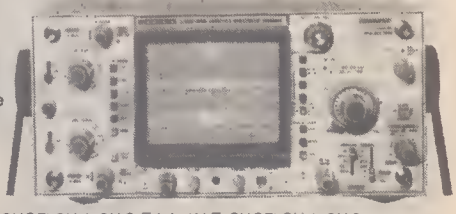
The single trece LBO-513A and the dual trace LBO-514A are compact 5-inch oscilloscopes that offer maximum performance at low cost. Equipped with both vertical and horizontal magnifiers, they have 1-mV sensitivity with X5 magnification and a maximum sweep speed of 0.1 us/cm (0.2 s/cm to 0.5 usec in 18 calibrated steps plus X5 megnification). Rise lime of both oscilloscopes is 23 ns with normel end eutomatic, + or − triggering. The LBO-514 provides both chop and alternate dual trace displays. The model LBO-514AP is available with a higher intensity CRT and internal graticule.

SPECIFICATIONS

VERTICAL DEFLECTION—Bendwidth (—3 dB, 8 cm): DC: DC lo 15 MHz. AC: 2 Hz to 15 MHz. **Rlee Time:** 23 ns. **Deflection Coefficients:** 5 mV/cm to 10 V/cm in 11 calibrated eteps, 1-2-5 sequence, continuously varieble sensitivity increased to 1 mV/cm by X5 vertical magnifier. **Accurecy:** ±3% (0.40°C). **Input Impedence:** 1 M ohm, 35 pF. **INTERNAL HORIZONTAL DEFLECTION (SWEEP MODE)—**0.5 us/cm to 200 ms/cm in 18 calibrated steps, 1-2-5 sequence, continuously veriable between steps. **Megnifier:** Times 5 magnifier extends maximum aweep rete to 100 ns/cm. **Accurecy:** ±5% (+5% with megnifier). **TRIGGERING—**Internel CH-1. Internel CH-2 (LBO-514 only). External. **Meximum Input:** 600 V (DC plus AC peak). **Dieplay Modee (LBO-514 only):** CH-1, CH-2, alternete, chop. **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE) LBO-513—Input:** Vla external trigger connector. **Deflection Coefficients:** 200 mV/cm to 5 V/cm. **Bendwidth (-3dB, 10 cm):** DC-250 kHz. **Rlee Time:** 1.4 us. **EXTERNAL HORIZONTAL DEFLECTION (X-Y MODE) LBO-514—Input:** Vla CH-1 vertical input connector. **Deflection Coefficiente:** See verticel specifications. **Bendwidth (—3 dB, 10 cm):** DC-800 kHz. **Rlee Time:** 440 ns. **Phaee Shift:** Less than 3° at 100 kHz. **TRIGGERING—Sources:** Internal CH-1. Internel CH-2 (LBO-514 only). External. **Modea:** Auto (greater than 50 Hz). Normal. **Coupling:** AC, HF-Reject (TV-V). **Slope:** + or −. **Sensitivity:** Internal: 1 cm. External: 200 mV p-p. **Extemel Input:** Impedance: 100 K ohm, 50 pf. Maximum Level: 100 V (DC plus AC peak). **Z-AXIS (INTENSITY) MODULATION—Input Level:** TTL compatible. **Meximum Input:** 50 V p-p. **INTERNAL CALIBRATOR—Output Level:** 0.5 V p-p, ±3%. **Weveshape:** Square weve, 1 kHz. **CRT DISPLAY—Phoephor:** P31. **Greticule:** External (internal on LBO-514AP), 8 x 10 cm with rise-time cellbration. **Accelereting Potentiel:** 1.8 kV (5.8/1.8 kV on LBO-514AP). **Trece Alignment:** Front panel trece rotation control. **POWER REQUIREMENTS—**115/230 VAC ± 13%, 50 to 80 Hz, 33 VA. **PHYSICAL—Size (WHD):** 11-3/8 x 8-7/8 x 14-3/4". (290 x 160 x 375 mm.) **Weight:** 17 lbs., 7.7 kg. **ENVIRONMENTAL—Temperature (Operating):** 0 to 40°C. **Vibretion:** 2 mm p-p displecement et 12 to 33 Hz. **Shock:** 30 g. **SUPPLIED ACCESSORIES—** Instruction Manual, Type LP-16AX switchable X1/X10 Probes, (two with LBO-514A, one with LBO-513A). **AVAILABLE ACCESSORIES—**LP-2004A Probe Pouch. LC-2001A Protective Front Cover. LRA-508 Rack Mount Adaptor.

LEADER 100 MHZ 3-CHANNEL OSCILLOSCOPE

MODEL LBO-516 REG. $1395.00 OUR PRICE $1299.95



DESCRIPTION

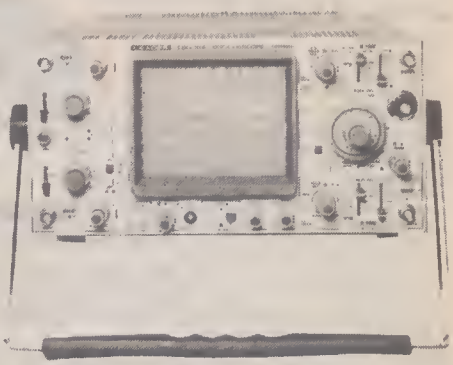
This new Duel Time Base Oscilloscope offering from LEADER features full three channel capability, alternate triggering for simultaneous display of two asynchronous signals, elternete time base and eight trace capability. The LBO-516 also features variable trigger holdoff, line triggering for observation of line related signal components and euto, normal end single sweep modes. The vertical input section of this scope offers 500 uV sensitivity, and add, subtract end X-Y modes. The dome mesh PDA CRT with 20 kV/2 kV accerlating potential provides e bright, crisp trace, even at high sweep rates. And, a CH-1 output is provided on the front penel so that en edditional instrument, such as a frequency counter, may be eesily connected.

SPECIFICATIONS

CRT Accelereting Voltege: 20 kV/2 kV (PDA). **Displey** 8 x 10 Div (1 Div = 1 cm). **VERTICAL DEFLECTION CH-1, CH-2 Deflection Sensitivity:** 5 mV/Div - 5 V/Div 500 uV/Div (MAG x 10 ON), **Bendwidth:** DC - 100 MHz, -3 dB, **Rlse Time:** 3.5 nS. **CH-3 INPUT TERMINAL (A EXT TRIG IN) Deflection Senelitivity:** 0.2 V/Div, 2 V/Div, **Bendwidth:** DC - 100 MHz, -3 dB, **Input Coupling:** DC, AC, **Modes:** CH-1; CH;2 ADD (CH-1 ± CH-2); DUAL (ALT, CHOP) CH-1, CH-2; Triple (ALT, CHOP) CH-1, CH-2, CH-3; Quad (ALT, CHOP) CH-1, CH-2, CH-3, (CH-1 ± CH-2). **CH-1 OUTPUT TERMINAL:** Output voltage is 25 mV p-p/Div. **HORIZONTAL DEFLECTION Sweep Modee:** Triggered Sweep, Autometic Triggered Sweep, Single Sweep, Continuously Delayed Sweep, Triggered Delayed Sweep, Single Delayed Sweep, Alternate Sweep, A Intensified by B, **A Sweep Time:** 20 nS/Div -0.5S/Div, **B Sweep Time:** 20 nS/Div - 50 mS/Div, **Hold—Off Time:** To greater than one sweep, **Delayed Sweep Jitter:** 1/20000, **Sweep Megnificetion:** 10 times, **Mex. Sweep Time:** 2 nS/Div (MAG x 10 ON), **Trigger Source:** A Sweep: CH-1, ALT, CH-2, LINE, EXT 0.2 V/DIV, EXT 2V/DiV. B Sweep: A sweep source is used. **Trigger Coupling:** A Sweep: AC, HF-REJ, DC, TV-V, TV-H. B Sweep: A sweep coupling is used. **Trigger Senelitivity:** DC-10 MHz INT-0.4 Div, EXT 0.1 V- 10 MHz-100 MHz INT-1.5 Div, EXT-0.4 V. **Power Requirements:** 100, 120, 200, 220, 240, VAC, 50/80 Hz. 65 W. **Dimensions:** (WHD) 12"x 5-3/4"x 15-3/4". **Weight:** 19-3/4 lbs. **Acceasorlee Supplied:** instruction manual, 2- 100 MHz X10/X1 probes, LP-100X., 2-BNC lo post adaptors., 1-extra fuse.

LEADER 100 MHz QUAD CHANNEL ALTERNATE TIME BASE OSCILLOSCOPE

MODEL LBO-518 OUR PRICE $1799.95 *SPECIAL!*



DESCRIPTION

The versatlie LBO-518 is a 100 MHz qued channel, alternate time base oscilloscope featuring front panel 4 channel operetion, simultaneous display of main and delayed time bases, and eiternate chennel triggering for viewing non-frequency related signals simultaneously. Separate, independent comprehensive triggering facilities for both the main and delayed time base include HF reject, LF reject, video sync separator, alternate channel triggering and triger level control with preset in addition to variable trigger hold-off, line triggering for observetion of line related signal components and auto, normal and single sweep modes.

Separate vertical positioning and input connectors for 4 channel operation are front panel accessible as are the mein and delayed sweep intensity and trace separation controls.

A dome mesh PDA CRT with 20 kV accelereting potential allows criticel observation of fast rise time signals with low repetition rates and similar events which are often difficult to observe due to limited trace brightness.

The vertical input section of the scope features 0.5mV sensitivity, 20 MHz bandwidth limiter, beam finder end add/subtract modes. While offering these additional cepabilities, small size hes been retained ellowing the LBO-518 to be stored under the seat or in the overheed compartment on most commercial jet liners.

SPECIFICATIONS

VERTICAL DEFLECTION—Bendwidth: (—3 dB, 8 div.) DC: 0 Hz to 100 MHz. AC: 10 Hz to 100 MHz. **Rlee Time:** 3.5 ns. **Deflection Coefficients:** (CH-1, CH-2). 5 mV/cm to 5 V/cm in 10 steps, 1-2-5 sequence, continuously verleble between steps, uncalibrated warning lights. X10 multiplier provides 0.5 mV/cm sensitivity up to 5 MHz. (CH-3, CH-4). 0.2 V/Div, 2 V/Div. **Accurecy:** ±3% (0.40°C), ±5% with X10 mag. **Input Impedence:** 1 M ohm, ±2%, 28 pF ±3 pF. **Meximum Input:** 600 V (DC plus AC peak). **Signel Delay:** 20 nS, leeding edge can be observed. **Displey Modes:** CH-1, CH-2, alternate, chop, edd, subtract (CH-2 invert), triple, qued. **BW Limiter:** 20 MHz bandwidth limiter limits vertical response to 20 MHz (-3 dB). **Output:** CH-1 output on rear penel of 50 mV/cm deflection into 50 ohm. **INTERNAL HORIZONTAL DEFLECTION (SWEEP MODE)—Dieplay Modee:** Main time base, main time base intensified by delayed time bese, eiternete main and delayed time base, deleyed time bese. **Mein Time Bese:** 0.02 uS/cm to 0.5 S/cm in 23 steps, 1-2-5-sequence, continuously variable between steps, uncalibrated warning light. **Delayed Time Bese:** 0.02 uS/cm to 0.5 S/cm in 23 steps, 1-2-5 sequence. **Megnifier:** Times 10 magnifier extends maximum sweep rate to 2 nS/cm. **Accurecy:** ±3% (±5% with magnifier). **Power Requirements:** 100, 120, 200, 220, 240 VAC ±10%, 50/60 Hz, 65 W. **Dimensions: (WHD)** 12"x 5-3/4"x 15-3/4". **Weight:** 21 lbs. **Accesorlee Supplied:** instructions manual, 2-LP-100X 100 MHz X1/X10 probes, 2-BNC to post edeptors.

LEADER NTSC VIDEO GENERATOR

MODEL LCG-396

REG. $995.00 OUR PRICE $845.75

DESCRIPTION

The LCG-396 is a versatile NTSC video generator suitable for testing, servicing and evaluating a broad range of video systems including video tape recorders, CATV and MATV systems, video monitors and television receivers. It provides 11 test patterns including the standard NTSC color bars for measuring and adjusting color purity, white balance, luminance, chrominance, and convergence. Outputs include composite video, H or V scope trigger, subcarrier and RF (CH 5 or CH 8). Other features include variable chroma, luminance and set-up levels, and selectable interlaced or progressive scanning.

SPECIFICATIONS

PATTERNS NTSC Color Bars: Split field color bars with upper 75% white, yellow, cyan, green, magenta, red, blue, and black; lower 25% Q, —I, and 100% white (IQW). **Full Field Color Bars:** As above without IQW. **Rasters:** Separate red, blue, green and white. **Stair Case:** Obtained from color bars with chrominance component deleted. **Crosshatch:** 21 vertical x 18 horizontal white lines centered on black raster and one center dot. **Dots:** 20 vertical x 15 horizontal white dots equally spaced on black raster. **SYNCHRONIZATION Type:** 60 HZ field of 525 lines interlaced with equalizing pulse, switchable to progressive scanning. **Horizontal Scanning Frequency:** 15.734 Hz. **Vertical Scanning Frequency:** Interlaced 59.94 Hz and progressive 60.05 Hz. **Horizontal Blanking Pulse Width:** 11.3 us. **Vertical Blanking Pulse Width:** Interlaced 1.24 ms and progressive: 1.21 ms. **Horizontal Sync:** 4.61 us. **Front Porch:** 1.3 us. **Burst:** 8 cycles min. **COMPOSITE VIDEO OUTPUT Level:** 0 to 1.5 V p-p, 1 V p-p in present position. **Impedance:** 75 ohm. **Polarity:** Positive (sync signal is negative). **RF OUTPUT Frequencies:** CH 5, 77.25 mHz ± 0.5%; CH 8, 83.25 mHz ± 0.5%. **Level:** 10 mV rms. **Impedance:** 75 ohm unbalanced. **Modulation System:** Negative modulation. **SUBCARRIER OUTPUT Frequency:** 3.579545 mHz ± 100 Hz (calibration to ± 5 Hz is possible). **Level:** 1 V p-p (no load). **Impedance:** 75 ohm. **Power Requirements:** 117 Volts. **Dimensions:** (W x H x D) 7-7/8 x 4-3/4 x 11-7/8 in. 200 x 120 x 300mm. **Weight:** 7 lbs., 3.2 kg.

LEADER

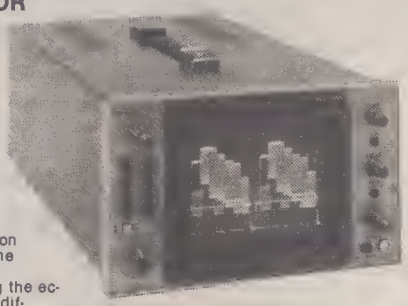
NTSC WAVEFORM MONITOR

MODEL LBO-5860A

REG. $2050.00

OUR PRICE $1850.00

DESCRIPTION



The LBO-5880 Waveform Monitor permits displaying the vertical interval test and reference signals by a front panel line selector. Lines 14 through 21 can be selected from field one or two without interference from the active portion of the video signal, a feature normally available only on more expensive, full rack mount units. The instrument also has a blanking output to blank the companion Vectorscope during the active portion of the video signal, allowing differential gain and phase measurements to be accomplished easily. The CRT features an internal graticule and 7 kV accelerating potential for bright, easy-to-read displays. Total RGB and YRGB (YRGB optional) capability is available and horizontal sweep speeds of 2 H (2 line), 1u/div (expanded 2 line), 2 V (2 fields) and 2 V MAG (expanded 2 fields) are standard.

LEADER OSCILLOSCOPE CALIBRATOR

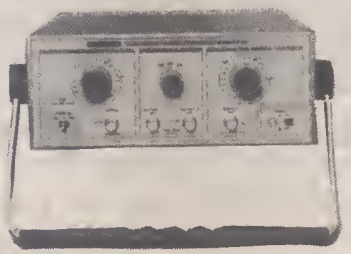
MODEL LOC-7005

OUR PRICE $1295.00

FEATURES

- Amplitude calibration 0.25 mV-100 V.
- Time mark output 0.05 uS-1.0 S.
- Fast Rise Time Square Wave.

DESCRIPTION



The LOC-7005 is an oscilloscope calibrator which combines the functions most needed to test, repair, and calibrate oscilloscopes into one compact instrument. The LOC-7005 provides three outputs:

1. An amplitude output to calibrate the vertical axis of an oscilloscope. It provides a .25mV-100 V square wave in a 1-2.5-5 step sequence. Output frequencies are 100 Hz, 1 kHz and 10 kHz with a 100 ns rise time.
2. A time marker output to calibrate the time base (sweep speed) of an oscilloscope. The marker interval is from 0.05 us-1 s in a 1-2-5 step sequence at 0.1 V p-p.
3. A fast rise time square wave to check the pulse response and rise time of an oscilloscope. The rise time of the square wave is less than 3 ns at amplitudes of 20 mV, 40 mV or 60 mV. The output frequency is 100 kHz.

The LOC-7005's small size and versatility make it the ideal instrument for service and calibration facilities who must maintain their own field service and general purpose oscilloscopes.

SPECIFICATIONS

TIME BASE: Frequency: 3.2768 MHz. **Power:** Batteries (not supplied) "C" cell x 4 (6V) Ext power 6 to 12V, 200 mA. **Size and Weight:** 160(W) x 58(H) x 122(D) mm, 500g (without batteries).

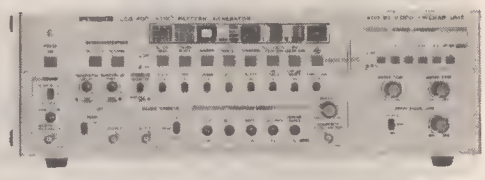
LEADER NTSC VIDEO GENERATORS

MODEL LCG-400M (MULTIBURST)

MODEL LCG-400S (SWEEP)

REG. $1995.00 OUR PRICE $1755.00

DESCRIPTION



The LCG-400 provides both gen-lock and internal synchronization with the full range of video signals needed for testing and adjusting monitors, cameras, VTR's and overall performances of color and B&W TV systems. It is available with either multiburst (LCG-400M) or sweepmarker (LCG-400S) generators. The LCG-400 will sync with all standard composite video signals including those from quad head and helical scan VTR's. Patterns include EIA and full field color bars, 5-step stair case, 8 color rasters, crosshatch and dot convergence, circle and corner marker with on/off control of chroma and luminance. Both interlace and progressive scanning are provided. Outputs include composite video, subcarrier, black burst, vertical and horizontal drive, and CH 5/6 RF. Units are supplied for either bench-top or rack mounting.

SPECIFICATIONS

System: NTSC-M. **PATTERNS EIA Color Bar:** EIA standard RS-189A 75% amplitude — 100% saturated color bar with gray (75% white), yellow, cyan, green, magenta, red, blue —I, 100% white, "Q" and black. **Full Field Color Bar:** 75 amplitude — 100% saturated color bar with grey (75% white), yellow, cyan, green, magenta, red, blue, and black. **Stair Case:** 5 step. **Raster:** 8 colors — red, green and blue (combined), white (100% and 75%), yellow, cyan, green, magenta, red, blue and black. **Window:** White window on black background. **Convergence:** Crosshatch 17 x 13 dot; dot 16 x 12, and center. **Alignment:** Crosshatch 9 x 7, circle, and corner marker. **Multiburst Frequency (LCG-400M only):** 0.5, 1.5, 2.0, 3.0, 3.58, 4.2 mHz (± 3% adjustable) with 100% white reference level at left end of burst; 50 and100% amplitude with ± 1 dB flatness. **Video Sweep (LCG-400S only):** 50 kHz to 7 mHz synchronized with field; amplitude is 50 or 100% fixed or 0 to 100% variable with ± 1 dB flatness; 0.5, 1.0, 2.0, 3.5, 3.58, and 4.2 mHz marker frequencies. **SYNC SIGNAL:** EIA standard RS-170A. **Scanning System:** Interlace and progressive. **Number of Scanning Line:** interlace 525 and progressive 262. **Line Frequency:** 15.734 kHz. **Field Frequency:** interlace 59.94 Hz and progressive 60.05 Hz. **Gen-Lock:** Synchronized to video signal input. **Horizontal Delay:** Continuously variable. **Sub-Carrier Phase:** 0-360° continuously variable. **SOUND Intercarrier system:** F3 (FM). **Carrier Frequency:** 4.5 mHz. **Int. Mode:** 1 kHz sine wave. 1 kHz **Output:** 3 V p-p. **Output Impedance:** 600 ohm. **EXT. MODE Frequency:** 50 Hz - 10 kHz. **Input Voltage:** 3 V p-p. **Input Impedance:** 600 ohm. **Pre-Emphasis:** No. **COMPOSITE VIDEO OUTPUT Polarity:** Negative Sync. **Voltage:** 1 V fixed and 0-IV variable. **Impedance:** 75 ohm. **SUBCARRIER OUTPUT Frequency:** 3.579545 mHz ± 5 Hz (0° —40°C). **Voltage:** 2 V p-p. **Impedance:** 75 ohm. **BLACK BURST OUTPUT Voltage:** Sync signal 288 mV and burst 288 mV. **Impedance:** 75 ohm. **RF OUTPUT Channel:** CH 5, 77.25 mHz ± 0.5%. CH 6, 83.25 mHz ± 0.5%.

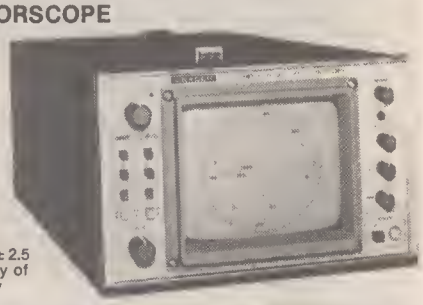
LEADER NTSC VECTORSCOPE

MODEL LVS-5850B

REG. $2050.00

OUR PRICE $1850.00

DESCRIPTION



The LVS-5850 Vectorscope provides a convenient method for observing and measuring the relative phase and amplitude of chrominance signal components. It utilizes a unique technique which electronically displays the 'inner boxes' which represent error limits of ± 2.5° and ± 2.5 IRE units. This improves the accuracy of phase and amplitude adjustments by eliminating errors dues to CRT non-linearities. The LVS-5850 includes three loop-through inputs including a dedicated external subcarrier reference input which is front panel selectable. Either of the two composite video loop-through inputs can also be selected as the reference signal and all three inputs can be displayed individually. The unit is also equipped with a Z-axis blanking input to provide blanking during the active portion of the video signal and unblanking during the VITS signal for a stable, jitter-free display. A test circle pattern is also selectable for a quick calibration check of the instrument. Another front panel push button provides for either 100% or 75% amplitude levels. A gain control, with a detented calibrated position, provides for continuous amplitude adjustment. A phase control permits rotating the display through 380°.

LEADER

DIGITAL LCR METER

MODEL LCR-745

REG. $1395.00

OUR PRICE $1275.00

FEATURES

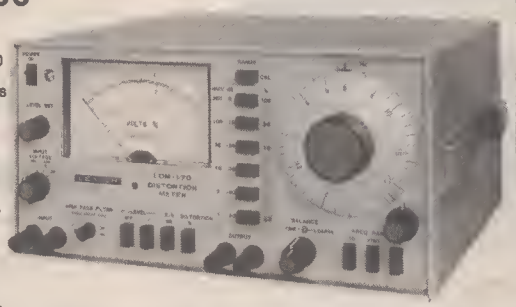
- Auto Ranging.
- Equivalent circuit test, series and parallel.
- Simultaneous display of inductance and Q, capacitance and D.

DESCRIPTION

The LCR-745 is a digital LCR Meter with automatic ranging. Direct resistance, capacitance, and inductance measurements of components and equivalent series and parallel circuits can be obtained with the CPU controlled instrument. The unit's wide automatic measurement ranges greatly reduce the time associated with performing these component and circuit measurements with a manually operated LCR Bridge, making it ideal for QC, production and incoming inspection applications where ease of operation or high volume testing is required. Quality (Q) and Dissipation (D) factor measurements are displayed simultaneously with inductance and capacitance parameters. An automatic zero offset function compensates for stray capacitance and residual resistance and inductance. Two test frequencies, 1 kHz and 120 Hz are selectable, allowing highly accurate measurements of troublesome electrolytic capacitors to be accomplished easily. The instrument's basic accuracy is ± 0.35% of reading.

LEADER DISTORTION METER FOR AUDIO CIRCUITS

MODEL LDM-170
REG. $690.00
OUR PRICE $620.00



FEATURES
- Distortion to 0.01%.
- Signal to noise ratio to 70 dB.
- Audio level measurements to 100 uV.

DESCRIPTION
The LDM-170 is a compact, versatile instrument for measuring distortion, signal-to-noise ratio and signal levels in audio equipment and systems.

Total distortion measurements of 0.01 to 100% can be made over a frequency range of 20 Hz to 20 kHz. Signal to noise ratio measurements can be made up to 70 dB with signal levels from 0.35 to 30 V rms. Audio level measurements from 100 uV to 300 V rms can be made up to 200 kHz with ±5% full scale accuracy.

SPECIFICATIONS
DISTORTION MEASUREMENTS—Ranges: 0.3, 1, 3, 10, 30 and 100% full scale. **Accuracy:** Within 0.05 times full scale. **Frequency Range:** 20 Hz to 20 kHz in three ranges. **Input Level Range:** 0.35 to 30 Vrms. **Input Impedance:** 100K ohm, 50 pF. **Fundamental Frequency Suppression:** Over 70 dB. **Residual Distortion:** 0.03% max. **SIGNAL TO NOISE RATIO MEASUREMENTS—Range:** 0 to 70 dB below ref. level. **Input Level:** 0.35 to 30 V rms. **LEVEL MEASUREMENTS—Range:** 1 mV to 300 V rms full scale in 12 ranges, minimum reading 100uV. **Accuracy:** ±5% of full scale. **PHYSICAL—Size (WHD):** 11-3/4 x 5-7/8 x 9-7/8" (300 x 150 x 250mm.). **Weight:** 13 lbs. (6 kg.).

LEADER WOW & FLUTTER METER

MODEL LFM-3610
REG. $655.00
OUR PRICE $590.00

FEATURES
- Measures Wow and Flutter and Drift.
- Selectable JIS, CCIR and DIN.
- Crystal controlled reference oscillator.
- Selectable frequency ranges for flutter measurements.

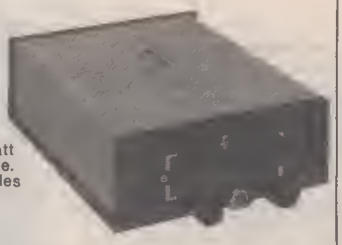
DESCRIPTION
The LFM-3610 is a wow and flutter/drift meter designed primarily for the service, testing and repair of turntables and record/playback equipment. Selectable flutter test frequency ranges permits isolating the trouble area to the capstan, motor or belt quickly and accurately. Measurements to JIS, CCIR and DIN standards are front panel selectable.

The unit's frequency selector measurement feature greatly reduces the troubleshooting and testing time normally associated with the repair of turntables and record/playback equipment. The unit's reference frequency oscillator is crystal controlled for precise, repeatable test results. The LFM-3810 will measure drift, and wow and flutter either separately or combined.

SPECIFICATIONS
INPUT REQUIREMENTS—Frequency: 3 kHz ±10%, JIS, CCIR; 3.15 kHz ±10%, DIN. **Level:** 50mV-5 V rms. **Meter Indication:** Wow/Flutter and Drift switchable. **DRIFT MEASUREMENTS—Range:** 0 to ±5%. **Accuracy:** ±5% full scale. **WOW AND FLUTTER MEASUREMENTS—Range:** 0.003 to 3% in 5 ranges. (0.03, 0.1, 0.3, 1, 3% full scale). **Accuracy:** ±8% full scale. **PHYSICAL—Size (HWD):** 98 x 200 x 300mm. **Weight:** 2.5 kg.

LEADER AUDIO DUMMY LOAD

MODEL LD-21
REG. $79.95
OUR PRICE $69.95



DESCRIPTION
The LD-21 provides two, non-inductive 8-ohm, 50-watt loads. Ideal for testing stereo amplifiers and the like. Loads may be connected in parallel (4-ohms) or series (18-ohms) for 100-watt dissipation.

SPECIFICATIONS
- Channels: Two.
- Impedance: 8 ohm.
- Power: 50 watts per channel.
- Connectors: Combination binding post, banana jack.
- Size (W x H x D): 4-3/8 x 2 x 8-1/2 in. 110 x 50 x 165mm.
- Weight: 1 lb., 0.45kg.

LEADER WOW & FLUTTER METER

0.005% to 3% MEASUREMENTS
MODEL LFM-39A
REG. $899.95
OUR PRICE $799.95

FEATURES
- Standard 3.0 kHz oscillator included; 3.15 kHz oscillator optional.
- Use with any scope to observe wow and flutter content.
- Controls on face panel for maximum convenience.
- Measures center frequency at 3.0 or 3.15 kHz.
- Provides 3 weighted modes — JIS, CCIR & DIN.
- Separate wow, flutter and drift readings; combined wow and flutter readings.

SPECIFICATIONS
Input Frequency: JIS, CCIR, 3 kHz ±10%, DIN 3.15 kHz ±10%. **Input Voltage Range:** 15 mV to 10 Vrms. **Input Impedance:** Over 300K ohm, unbalanced. **Drift (tape speed) Measurement:** Range: ±5%. Accuracy: within ±5% of end scale value. **WOW Flutter Measurements:** Range: 0.03%, 0.1%, 0.3%, 1% and 3% rms. Full scale 5 ranges Accuracy: within ±5% of full scale. **Mode:** W & F (flat): JIS 0.5-200 Hz (—3 dB; ±1 dB). CCIR 0.3-200 Hz (—3 dB ±1 dB). DIN 0.3-300 Hz (—3 dB ±1 dB) weighted in accordance with JIS and CCIR & DIN specifications. **Scope Output:** Output voltage—Output level, 1 Vrms +10% full scale—for JIS standards; 0.7 Vrms ±5% full scale for CCIR & DIN standards. Output impedance: 2K ohm ±20%. **Reference Oscillator:** Frequency: 3 kHz, within ±0.1% (JIS & CCIR) 3.15 kHz, within ±0.1% (DIN). Output Voltage: 0.3 Vrms ±10%. Output Impedance: Less than 3K ohm. Distortion: Less then 2%. **Recorder Output:** Output Voltage: 1V ±10% at meter full scale. Output Impedance: 2K ohm ±20%. **Power Supply:** 115/230V; 50/80 Hz; 15 VA, approx. **Size:** 8"H x 9-3/4"W x 9-3/4"D. **Weight:** 2-1/2 lbs. approx.

LEADER 2 MHz SWEEP/FUNCTION GENERATOR

MODEL LFG-1300S
REG. $495.00 **OUR PRICE $445.00**

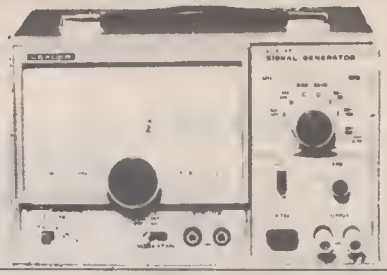
DESCRIPTION
The LFG-1300S is a general purpose signal source with a broad range of research, design and service applications. Outputs include sine, square, triangle, ramp and pulse signals. Pulse symmetry is variable over a 9:1 range and, unlike many other instruments, changing the symmetry does not appreciably affect the output frequency. Linear and logarithmic sweep frequency outputs are available with sweep widths up to 1,000:1. Output level is controlled by a calibrated 70 dB attenuator (10 dB/step) with continuous adjustment between steps. The output may be frequency or amplitude modulated by an external signal. A level control also provides a suppressed carrier outputs. The LFG-1300S is housed in a sturdy metal housing with a 'human engineered' front panel for convenient, simple operation.

SPECIFICATIONS
- **Frequency:** Ranges (0.02 Hz—2 mHz in 8 ranges, uncalibrated to 0.002 Hz): 0.02 Hz-0.2 Hz; 0.2 Hz-2 Hz; 2 Hz-20 Hz; 20 Hz-200 Hz; 200 Hz-2 kHz; 2 kHz-20 kHz; 20 kHz-200 kHz; 200 kHz-2 mHz. Accuracy: 0.02 Hz to 200 kHz. ±3% of reading, ±3% full scale 200 kHz to 2 mHz: ±5% of reading. ±3% full scale.
- **Waveforms:** Sine Wave Voltage: 20 V p-p (7 Vrms) open circuit. Distortion: 0.02 Hz-100 kHz less than 1%, 100 kHz-2 mHz less than 3%. Flatness: 0.02 Hz-2 mHz within ±0.3 dB. Triangle Voltage: 20 V p-p open circuit. Symmetry: 1% (0.02 Hz to 100 kHz). Sawtooth Voltage: 20 V p-p open circuit. Symmetry: 15:85 or 85:15 fixed. Square Wave Output Voltage: 20 V p-p open circuit. Symmetry: 1% (0.02 Hz to 100 kHz). Rise Time: Less than 100ns. TTL Output: Fan Out: 20 TTL. DC Level: Controlled by DC offset: ±10 V. Pulse Voltage: 20 V p-p open circuit. Symmetry: 1:1-40:1 continuously variable. Polarity: + and —.
- **Sweep Capabilities:** Type: Linear or logarithmic. Rate (duration): 0.5 Hz to 50 Hz (2s to 20 ms). Width: 1,000:1 max, continuously variable. Ramp Output (for oscilloscope H-input): 0 to +10V. AM Capabilities: Modulation Level: 0 to 100% continuously variable. Carrier Level: Adjusted by front panel control.
- **Output Level Control:** Attenuator. 10, 20, 40 dB (0-70 dB, 10 dB steps). Impedance: 50 ohm. Max Level: 20 V p-p adjustable.
- **Rear Panel Inputs:** VCO: Input for external frequency control signal. Mod: Input for AM signal. GCV: Output for oscilloscope H-axis. TTL: Fixed level TTL output, fan out =20.

TEST INSTRUMENTS

LEADER SIGNAL GENERATORS

MODEL LSG-17 **REG. $190.00** **OUR PRICE $169.95**



DESCRIPTION

The LSG-17 usas racent integratad circult and hybrid technology making it very aconomical whila rataining stability, light waight and ameli aize. Tha LSG-17 haa a fundamantal frequancy ranga of 100 kHz to 150 mHz and up to 450 mHz by a calibreted high harmonic ranga. Tha LSG-17 hes a varnlar frequancy control and awitchabla high end low output levals. This unit can ba usad aa a cryatal oscilletor tastar by usa of a front penal plug-in of tha appropriata typa FT-243 crystel.

SPECIFICATIONS

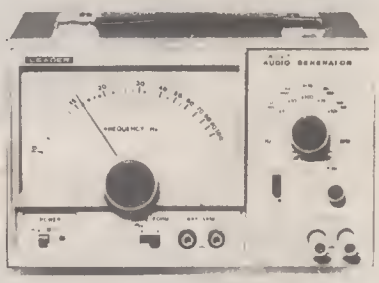
Frequency Range: 100 kHz to 130 mHz. (390 mHz by calibratad high harmonic). **Range Frequency:** A 100 kHz-300 kHz. B 300 kHz-1000 kHz. C 1.0 mHz-3.5 mHz. D 3.0 mHz-11 mHz. E 10 mHz-35 mHz. F 32 mHz-150 mHz (96 mHz-450 mHz). **RF Output:** Approx. 0.1V rms (unloadad). **Output Control:** High-Low switch and fina adjuatar. **Modulation:** Int, 1 kHz. ; Ext, 50 Hz-20 kHz. **Audio Output:** 1 kHz 1V or more. **Crystal Oscillator:** FT-243 (1 mHz-15 mHz). **Power Supply:** 115/230 V AC, Approx. 3 VA approx. **Size (WHD):** 10 x 6 x 5" (150 x 250 x 130mm). **Weight:** 5.5 lba. (2.5 kg.).

LEADER LOW DISTORTION SINE/SQUARE WAVE GENERATOR

MODEL LAG-27

REG. $205.00

OUR PRICE $184.50



DESCRIPTION

Tha LAG-27 providas both low diatortion sine and rapid-risa square wavas which can ba fraa-running or axternally synchronizad. It has five rangas to 1 mHz with varnler frequancy control and variabla output laval.

SPECIFICATIONS

Frequency Range: 10 Hz-1 mHz. X1 10 Hz-100 Hz. X10 100 Hz-1000 Hz. X100 1 kHz-10 kHz. X1000 10 kHz-100 kHz. X10K 100 kHz-1 mHz. **Frequency Accuracy:** 10 Hz-1 mHz ±(5% + 2 Hz). 100 Hz-100 kHz ±(3% + 2 Hz). **Output Impedence:** Approx. 600 ohm. **Sine Wave Output:** Frequency Renga, 10 Hz-1 mHz. Output Voltaga, 5V rms or mora (at unloaded). Output Flatness, Lass then or aqual to ±1.5 dB (raf. 1 kHz). Distortion, Laaa than 0.5% (200 Hz-100 kHz); Less than 1% (100 Hz-500 kHz); Lass than 2% (10 Hz-1 mHz). **Square Wave Output:** Frequancy Ranga, 10 Hz-100 kHz. Output Voltaga, 5V p-p or more (unioadad). Risa Tima, leas than 200 n-sac. **Sync Signal Terminal:** Synchronizetion Ranga, ±1%/V. Input impadenca, epprox. 10K ohm. Maximum input, 10V rms. **Power Requiremante:** 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz, 3 VA. **Size:** 10 x 6 x 5" (150 x 250 x 130mm). **Weight:** 5.5 lbs. (2.5kg).

LEADER AUDIO SINE/SQUARE WAVE GENERATORS

NEW!

MODEL LAG-120B
REG. $295.00 **OUR PRICE $265.00**

MODEL LAG-126S
REG. $695.00 **OUR PRICE $595.00**

LAG-120B

LAG-126S

DESCRIPTION

Tha LAG-120B and LAG-126S ara pracision audio ganarators used for designing, testing end servicing amplifiars, and othar audio aquipmant. Also suitable for providing ganaral purposa signals in a leboretory satting, thase ganarators ara a raliabla sourca of low distortion sina wevas or fast rise-time square wavas. Tha LAG-120B covars tha 10 Hz to 1 MHz range. Both units feature 3% dial accuracy end have step output attenuators (tha LAG-126S can ba adjustad in incremants of 0.1 dB), with a continuous laval adjustment for pracision control of output. Covaring tha 5 Hz to 500 kHz frequancy ranga, tha LAG-126S faaturas sina wava distortion less then .005% through 20 kHz. Tha output mey be switched on and off via a front panal awitch, which le extremely convanient for S/N measuramants, using belanced or unbalancad outputs.

SPECIFICATIONS LAG-120B

FREQUENCY—Renge: 10 Hz to 1 mHz in 5 deceda rengas. **Accurecy:** ±(3% + 1 Hz). **SINE WAVE OUTPUT—Level:** 3V rms, 600 ohm (+12 dBm). **Distortion:** 500 Hz to 20 kHz, lass than/ aqual to 0.05%; 50 Hz to 200 kHz, less than/aqual to 0.4%; 20 Hz to 500 kHz, lass than/aqual to 0.6%; 10 Hz to 1 MHz, lass than/equel to 1.5%. **SOUARE WAVE OUTPUT—Level:** 3 V p-p, 600 ohm tarmination. **Rise Tima:** 200 na. **Seg:** 5% or lass on all ranges. **Overshoot:** 2% or lass at max. output. **EXTERNAL SYNCHRONIZATION—Lock Range:** ±1% of diei frequancy par volt rms of input eignal. **Maximum input:** 10V rma. **GENERAL OUTPUT—Impedence:** 600 ohm ±10%, unbelanced. **Frequency Reeponse:** ±0.5 dB into 600 ohm load (1 kHz raf.). **Amplitude Control:** Output Attanuetor providas up to 50 dB of ettanuation in 10 dB ataps. A continuously variabla control is elso provided. **Power Requirements:** 100, 115, 200, 230 Vac, 50 to 60 Hz, 6.5 VA; normally supplied for 115 Vac operetion. **Dimensions:** (WHD) 5-1/4"x 6-3/4"x 9-7/6". **Weight:** 8.5 lbs. **Acceasories euppiled:** instruction menual, 600 ohm terminator, LT-2040.

SPECIFICATIONS LAG-126S

FREQUENCY—Renga: 5 Hz to 500 kHz in 5 dacada rangas. **Accurecy:** ±(3% + 1 Hz). **SINE WAVE OUTPUT—Level:** 3Vrms into 600 ohm terminetion (+10 dBv, +12 dBm). **Distortion:** Balanced Output: 500 Hz-20 kHz: lass than 0.005%; 20 Hz-500 Hz: lass than 0.06%; Unbalancad Output: 20 Hz-20 kHz: less than 0.005%; 10 Hz-50 kHz lass than 0.01%; 5 Hz-500 kHz: lass than 0.1%. **Output Level Fistnees:** Balanced Output: 20 Hz-20 kHz: ±0.5 dB, Unbelencad Output: 3 Hz-20 kHz: ±0.2 dB, 20 kHz-500 kHz: ±0.5 dB. **SQUARE WAVE OUTPUT—Level:** 4 V p-p into 600 ohm terminetion with tha output aat for dBv. **Overshoot:** Lass then 5% (when output level is set for more then or equal to -30 dBv). **Ssg:** Lass than 5%. **Rise Time:** Lass then 200 ns. **GENERAL OUTPUT CHARACTERISTICS—Impedence:** Balanced: 600 ohm, ±10%, Unbalancad: 600 ohm, ±3%. **Amplitude Control:** Output Attanuator providas up to 69.9 dB of ettanuation in 0.1 dB steps. A continuously variable control is also provided. **Power Requirements:** 100, 120, 200, 240 Vac ±10%, 50-60 Hz, 13 VA. **Dimenelons:** (WHD) 7-7/8"x 6"x 9-7/6". **Weight:** 7.7 lbs. **Acceseorlea supplied:** instruction manual, tast cablas, banana plugs to alligator clips.

LEADER CATV/MATV PORTABLE FIELD STRENGTH METER

MODEL LFC-944B **REG. $525.00** **OUR PRICE $475.00**

DESCRIPTION

Tha LFC-944B is e portebla battary opereted fiald laval matar dasigned for taeting and maasuring tha performence of CATV and MATV ayatems. It providas for maesuring lavala of -40 to +60 dBmv on VHF channals and -30 to +40 dBmv on UHF chennala. The mater acela is also celibretad to maka maaauramants in microvolts. An accurata attanuator providas up to 70 dB attanuation in 10 dB staps. Accureta datant tuning is providad for VHF channals and UHF tuning for channala 14 to 63 la with a continuous control. Tha LFC-944B la aupplied with a sturdy carrying case.

SPECIFICATIONS

Renge: VHF, -40 to +60 dBmV (10uV to 1V); UHF, -30 to +40+ dBmV (30uV to 0.1 V). **Accurecy:** VHF, ±3 dB; UHF, ±4 dB. **Amplifiar Bandwidth:** 1 MHz at 3 dB points. **Input Impedence:** 75 ohm. **Power Requirements:** 13.5 Vdc using 9 Type C cells (supplied). **Dimensione:** (WHD) 6"x 4"x 6". **Weight:** 5.7 lbs.

LEADER CATV LEVEL METER

MODEL LFC-945B **REG. $775.00** **OUR PRICE $690.00**

FEATURES

• 54 to 300 mHz end 470 to 690 mHz. • AC voltega meesuramant capability. • Small, lightwaight end rugged.

DESCRIPTION

Tha LFC-945 CATV Lavel Metar is a rugged, eccureta instrumant for maaauring aignal levala in CATV and MATV systama. It covars tha two frequancy rangas 54 to 300 mHz end 470 to 890 mHz with accuraciea of ±1.5 dB end ±2 dB raspectivaly. Tuning of individual chennels is feciliteted by lerge dials markad with both frequancy and channel, en alactronic fina tuning control and a built-in aound emplifier and a loudspeeker. Thraa 20 dB awitchabla attanustora and a 25 dB matar scala provida an input signal renga of —35 to +50 dBm (0 dBm = 1 mV). Tha LFC-945 will also maaaura AC voltagea on tha cabla aystam from 0 to 50 VAC with en eccurecy of ±5% f.s.

SPECIFICATIONS

Frequency Range: VHF, 40-300 mHz. UHF, 470-890 mHz. **Level Ranga:** —30 to +60 dBmV. **Reeponee and Indication:** Paak detact 75 ohm termineted indication. **Accuracy (et 20°C.):** VHF, within ±1.5 dB. UHF, within ±2 dB. **Temperature Cherecterietice:** Within ±1.5 dB (0°C-40°C). **Input Impedence:** 75 ohm F type connactor. **VSWR in Input:** VHF, 1.5 or laas (Att Out). 1.3 or laas (Att In). VHF, 1.6 or lass (Att Out). UHF, 1.5 or lasa (Att In). **Attanuator:** 20 dB x 3. **Accuracy of ATT:** VHF, within ±0.5 dB. UHF, within ±1.5 dB. **IF Frequancy:** 45.75 mHz. **Bandwidth:** Approx. 500 kHz (—3 dB). **Retio of Interfece to Neerest Channel:** 30 dB or lass. **Imege Retio:** 35 dB or lass. **Retio of diract Signal Leekege:** VHF, 70 dB or lass. UHF, 60 dB or lass. **Indicetion:** 30 dB span renga, 1 dB rasolution. **Voltege Maeeuremant:** AC 50V. **Accurecy of V Meeeure:** ±5% F.S. **Audible Monitor:** By spaakar, alopa damodulietion. **Operetional Temperature Renga:** 0°C-40°C. **Maximum Working Tempereture Renge:** —10°. **Power:** DC 15V, rechargeeble bettarlas. **Size (WHD):** 19.6 x 5.9 x 9.25". **Weight:** 6.6 lbs. (3.9kg). **Acceeorlee:** 10 rechergaable battarlas, 1 strap, 1 balun (300 ohm to 75 ohm).

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

LEADER SINGLE AND DUAL CHANNEL AC MILLIVOLTMETERS

MODEL LMV-181A
REG. $260.00
OUR PRICE $221.00

MODEL LMV-182A
REG. $309.00
OUR PRICE $262.25

MODEL LMV-185A
REG. $420.00
OUR PRICE $357.00

LMV-181A

LMV-182A

LMV-185A

FEATURES
- 5 Hz to 1 mHz.
- Amplified output signal terminals.
- Calibrated in millivolts and dB.
- 30 uV or 100 uV sensitivity.

DESCRIPTION
The LMV-181A and LMV-185A are general purpose average responding AC voltmeters with a measurement range of 100 uV to 300 V. The LMV-182A is an average responding AC voltmeter with increased sensitivity featuring an effective measurement range of 30 uV to 100 V. Bandwidth is 5 Hz to 1 mHz permitting use in a broad range of applications including audio, IF and ultrasonic circuits and systems. The meter scales are conveniently calibrated in both millivolts and dB (0 dB = 1 V and 0 dB = 0.775 V). Output terminals on all three models permit using these instruments as sensitive, accurate pre-amplifiers. The LMV-185A is a dual channel instrument employing a dual movement meter and concentric range switches for each channel. This permits convenient measurement and comparison of input/output levels and direct indications of gain/attenuation. The LMV-181A, LMV-182A and LMV-185A are accurate to within ±2% F.S.

SPECIFICATIONS
METER—Sensitivity (LMV-181A/LMV-185A): 100uV. **(LMV-182A):** 30uV. **Voltage Range (full scale) (LMV-181A/LMV-185A):** 1 mV to 300 V in 12 ranges —80 to +50 dB. **(LMV-182A):** 300 uV to 100 V in 12 ranges —70 to +40 dB. **Accuracy:** ±2% of full scale at 1 kHz or 400 Hz. **Frequency Response (1 kHz ref.):** 5 Hz to 1 mHz, ±10%; 10 Hz to 500 kHz, ±5%; 20 Hz to 200 kHz, ±2%. **Input Impedance:** 10M ohm, 50 pF. **Maximum Input:** 800V (DC plus AC peak). **Noise:** Less than 2% full scale. **AMPLIFIER—Output:** 1 V (no load) corresponds to a full scale indication on each range. **Frequency Response (1 kHz ref.):** 10 Hz to 500 kHz, —3 dB. **Output Impedance:** 600 ohm, ±20%. **Distortion (1 kHz):** Less than 1% full scale. **ENVIRONMENTAL—Operating Temperature:** 0-40°C. **Operating Humidity:** 85%. **POWER REQUIREMENTS:** Normally supplied for 115 VAC operation. **Dimensions:** (HWD) 5-7/8 x 5-1/4 x 9-7/8" (150 x 132 x 250mm). **Accessories supplied:** (LMV-181A & LVM-182A) instruction manual, test cable (banana plugs to alligator clips), adaptor, UHF to banana jack. (LMV-185A) instruction manual, 2-test cables (banana plugs to alligator clips), 2-adaptors, UHF to banana jack.

LEADER FM MULTIPLEX STEREO GENERATOR

MODEL LSG-231 **REG. $420.00** **OUR PRICE $378.00**

FEATURES
- RF, Composite and Audio outputs.
- Checks separation, balance and alignment in the field or on the bench.
- 19 kHz pilot signal, ±2 Hz accuracy. • 1 kHz audio signal, ±1% accuracy.
- Composite stereo output; 87 kHz, S.C.A. switch selectable.
- External modulation capability. • Selectable pre-emphasis.
- Modulation level, phase and scope phase adjustment. S.C.A. input jack.

SPECIFICATIONS
RF SIGNAL: Frequency: 100 mHz±1 mHz (variable). **Output:** 10mV, 1mV, 0.1mV (3 steps). **Impedance Frequency Deviation:** 75 ohm (balun: 75 ohm to 300 ohm provided). **Pilot Signal:** 7.5 kHz (10% modulation). **Composite Signal:** 0 to 75 kHz (100% modulation). **COMPOSITE SIGNAL: Pilot Signal Frequency:** 19 kHz ±2 Hz accuracy. **Output Voltage:** 0.8 Vrms. **Output Impedance:** 150 ohm unbalanced. **AUDIO SIGNAL: Frequency:** 1 kHz ±1% accuracy. **Output Voltage:** 1 Vrms. **Output Impedance:** 1K ohm. **Distortion:** Less than 0.5%. **Signal Separation:** 50 dB. **EXT. MODULATION: Frequency:** 50 Hz to 15 kHz pre-emphasis, 50usec., or 75usec.,(switch selectable). **Input Impedance:** 100K ohm (pre-emphasis at off). **Input Level:** 1 Vrms (pre-emphasis at off). **Separation:** 100 Hz to 3 kHz, 45 dB, 50 Hz to 15 kHz, 35 dB. **Power Requirements:** 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz, 10 VA. **Dimensions: (WHD)** 8"x 3-1/8"x 10". **Weight:** 5 lbs. **Accessories supplied:** Instruction manual, Type LBN-06 Dummy antenna with BNC connector, 2-test cables, miniature plug to alligator clips, 2-miniature plugs.

LEADER 101 dB AUDIO ATTENUATOR

MODEL LAT-45
REG. $225.00
OUR PRICE $202.50

FEATURES
- Reliable, 101 dB maximum, 0.1 dB per step measurements of power levels and gain-loss characteristics.
- Controls power levels and voltages for audio equipment testing.
- Suitable for industrial, laboratory, education and service use.

SPECIFICATIONS
Attenuation Range: 0 to 101 dB in 0.1 dB steps. **Accuracy:** Within +2% at 1 kHz. **Input/Output Impedance:** 600 ohm; unbalanced. **Frequency Characteristic:** DC to 100 kHz (70 dB). DC to 50 kHz (101 dB). **Internal Termination:** Open or 600 ohm, switched. **Maximum Input:** 0.5W (17 Vrms or DC, or +27 dBm). **Size & Weight:** 4"H x 11-13/16"W x 5-3/8"D; (100 x 300 x 150mm); 4 lbs approx.

LEADER AM/FM RF SIGNAL GENERATORS

MODEL LSG-215A **OUR PRICE $2795.00**

MODEL LSG-216 **OUR PRICE $2245.00**

DESCRIPTION
This new series of programmable signal generators feature convenient keyboard control of frequency and output level. Semi-automatic operation is available by pre-programming up to 100 different test conditions. 2 k bytes of memory stores frequency, output level and modulation (0 to 100% AM, 0 to 100 kHz FM) data for each test condition. The front panel display includes LED displays for frequency (5-1/2 digits), output level (2 digits LSG-215/218), and memory address (00 to 99). A phase locked loop synthesizer ensures extremely stable frequency outputs (5 x 10^{-6}). Single digits of the output frequency can be selected and changed using the digit select key without disturbing other operating parameters of the generator. The output level can be controlled up or down in increments of 10 dBuV using the output level step up/down control. 1 dBuV changes are accomplished using a vernier control. AM and FM modulation is available internally at 1 kHz and 400 Hz as well as external. The generator's RAM memory is protected by 1 month battery backup in case of AC line interrupt. A ROM unit (215-u01) is available as an optional accessory for identical programming for multiple test stations.

SPECIFICATIONS
LSG-215A AM/FM SYNTHESIZED SIGNAL GENERATOR: 0.1 to 30 mHz (100 Hz steps). 75 to 115 mHz (1 kHz steps). —9 to 99 dBuV (1 dB steps).

LSG-218 AM/FM SYNTHESIZED SIGNAL GENERATOR WITH FM STEREO: FM stereo signal generation with L, R, MAIN and SUB functions. 0.1 to 30 mHz (100 Hz steps). 75 to 115 mHz (1 kHz steps). —9 to 99 dBuV (1 dB steps).

GENERAL SPECIFICATIONS FOR BOTH MODELS: Power Requirements: 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz approx. 28 VA. **Dimensions:** (WHD) 15-3/4"x 3-7/8"x 11-3/4". **Weight:** 14.8 lbs. (LSG-215A). 13.8 lbs. (LSG-218). **Accessories supplied:** BNC (50 ohm) cable (one).

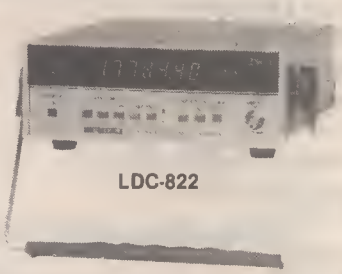
CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

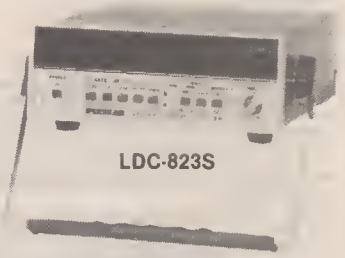
LEADER LABORATORY FREQUENCY COUNTERS

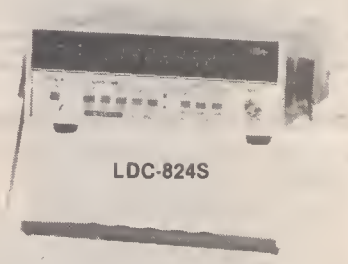
MODEL LDC-822
REG. $320.00 OUR PRICE $299.95

MODEL LDC-823S
REG. $450.00 OUR PRICE $399.95

MODEL LDC-824S
REG. $550.00
OUR PRICE $499.95


LDC-822


LDC-823S


LDC-824S

LDC-822 80 MHz Counter
Tha eavan digit, 60 MHz LDC-822 ia tha aimplaat and laast axpansiva banch-typa countar from Laadar. It has a tima baea accuracy of 5 ppm, offaring high parformanca at a coat affactiva prica.

SPECIFICATIONS LDC-822
FREQUENCY MEASUREMENTS Renge: 10Hz-60 MHz. **Gete Time:** 0.1, 1, 10s. **Reeolution:** 10 Hz, 1 Hz, 0.1 Hz. **Accurecy:** ±1 count, ± tima basa accuracy. **PERIOD MEASUREMENT Renga (X1):** 100 ms to 1 *us*. **Multiplicetion Fectore:** Timas 10, 100, and 1,000. **Reeolution:** 10, 1, 0.1 *ua*. **Accurecy:** ± 1 count, ± tima basa accuracy, ± triggar arror + muit. factor. **INPUT SECTION: Seneitivity:** 20 mV rms. **Attenuetor:** Timaa 1, 10, and 100. **Coupling:** ac. **Impedence:** 1 Mohm nominal. **Maximum Input:** 10 to 400 Hz; 100 V rms., 400 Hz to 100 kHz; 20 V rms., 100 kHz to 60 MHz; 5 V rma. **TIME BASE Frequency:** 10 MHz. **Temp. Stebility** (0-40°C): 5 ppm. **Aging Rete:** 5 ppm/yr. **GENERAL Dieplay:** 7 digits, 0.5" fluorascant. **Operating Temperature:** 0-40°C (32-104°F). **POWER REQUIREMENTS:** 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz, 10 VA. **Dimenelone:** (WHD) 6"x 3"x 10". **Weight:** 5 lbs. **Acceeeorie eupplied:** Ona pair of tast laada.

LDC-823S 250 MHz Counter
Tha LDC-823S haa a atandard tima basa accuracy of 1 ppm from 10 Hz to 250 MHz. It ia also availaba with an ovanized tima baaa which givas 0.03 ppm stability.

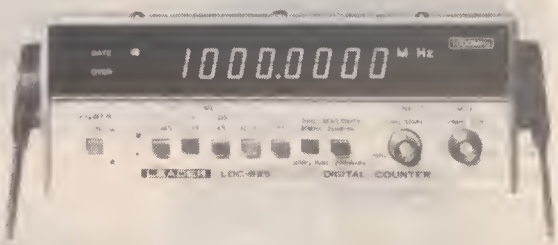
SPECIFICATIONS
FREQUENCY MEASUREMENTS Renge: 10 Hz-250 MHz in two rangas. **Gete Time:** 0.1, 1, 10s. **Reeolution:** 80 MHz-1 Hz, 0.1 Hz, 0.01 Hz. 250 MHz-100 Hz, 10Hz, 1Hz. **Accurecy:** ±1 count, ±tima basa accuracy. **PERIOD MEASUREMENT Renge:** 100ma to 1 *us*. **Multiplicetion Fectore:** Timaa 10, 100 and 1,000. **Reeolution:** 10, 1, 01 *ua*. **Accurecy:** ±1 count, ± tima basa accuracy, ± triggar arror + muit. factor. **INPUT SECTION: Seneitivity:** 20 mV (50 mV abova 100 MHz) **Attenuetor:** Timas 1 and 10. **Coupling:** ac. **Impedence:** 1 Mohm or 50 ohm switchabla. **Maximum Input:** 10 to 400 Hz; 100V rms., 400 Hz to 100 kHz: 20 V rms., 100 kHz to 250 MHz; 5 V rms. **TIME BASE: Frequency:** 10 MHz. **Temp. Stebility** (0-40°C): 1 ppm (0.03 ppm optional*). **Aging Rete:** 1ppm/yr. (0.02 ppm/day optional*). **Qutput:** 1 Vp-p, 10 MHz. **Externel Input:** 1 to 10 Vp-p. **Dieplay:** 6 digits, 0.5" flourascant. **Opereting Temperature:** 0-40°C (32-104°F). **POWER REQUIREMENTS:** 100, 120, 200, 220, 240 Vac ±10%, 50/60 Hz, 10 VA. **Dimenelone:** (WHD) 8"x 3"x 10". **Weight:** 6 lbe. **Acceeeorie eupplied:** Ona pair of tast laads.

LDC-824S 520 MHz Counter
Tha LDC-824S has a atandard tima basa accuracy of 1 ppm (0.03 ppm optional) ovar its 10 Hz to 520 MHz fraquancy ranga.

SPECIFICATIONS
FREQUENCY MEASUREMENTS Renge: 10 Hz-520 MHz in two rangas. **Gete Time:** 0.1, 1, 10s. **Reeolution:** 80 MHz-1 Hz, 0.1 Hz, 0.01 Hz., 520 MHz-100 Hz, 10 Hz, 1 Hz. **Accurecy:** ±1 count, ± tima basa accuracy. **PERIOD MEASUREMENT Renge:** 100 ma to 1 *us*. **Multiplicetion Fectore:** Timas 10, 100, and 1,000. **Reeolution:** 10, 1, 0.1 *us*. **Accurecy:** ±1 count, ± tima basa accuracy, ± triggar arror + muit. factor. **INPUT SECTION: Seneitivity:** 20mV (50 mV abova 60 MHz). **Attenuetor:** Timas 1 and 10. **Coupling:** ac. **Impedence:** 1 Mohm or 50 ohm switchabla. **Maximum Input:** 10 to 400 Hz; 100 V rms., 400 Hz to 100 kHz; 20 V rm., 100 kHz to 520 HMz; 5 V rms. **TIME BASE Frequency:** 10 MHz. **Temp. Stebility** (0-40°C): 1 ppm (0.03 ppm optional*). **Aging Rete:** 1 ppm/yr. (.02 ppm/day optional*). **Qutput:** 1 Vp-p, 10 MHz. **Externel Input:** 1 to 10 Vp-p. **Dieplay:** 6 digits, 0.5" flourascant. **Opereting Temperature:** 0-40°C (32-104°F). **POWER REQUIREMENTS:** 100, 120, 200, 220, 240 VAC ±10%, 50/60 Hz, 10 VA. **Dimenelone:** (WHD) 8"x 3"x 10". **Weight:** 6 lbe. **Acceeeory eupplied:** Ona pair of taat laada.

LEADER 1 GHz DIGITAL COUNTER

MODEL LDC-825 REG. $1295.00 OUR PRICE $1165.00

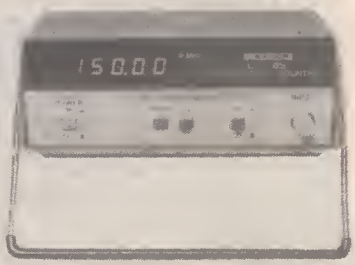


DESCRIPTION
Tha LDC-825 has tha widast fraquancy ranga of any Laadar countar; 10 Hz to 1 GHz. It alao has tha highaat tima basa accuracy (±0.03 ppm), making it tha idaal countar for critical, high-fraquancy raquiramants. Two input impadancaa, 1 Mohm (10 Hz to 60 MHz) and 50 ohm (50 MHz to 1 GHz) ara availaba for pracisa matching to tha davica undar tast.

SPECIFICATIONS
FREQUENCY MEASURMENTS
Ranga: 10 Hz to 1 GHz in two rangas. **Gete Time:** 0.1 s; 1 s; 10 s; 0.04 s; 0.4 s; 4s. **Accurecy:** ± tima basa accuracy ± 1 count. **PERIOD MEASUREMENTS Renge:** 100 ms, to 1 us. **Multiplicetion Fectore:** X10, X100, X1000. **Reeolution:** 10 us , 1 us, 0.1 us. **Accurecy:** ± tima baaa accuracy ± triggar arror ± 1 count. **INPUT SECTION Input Impedance:** 1 Mohm at 10 Hz to 60 MHz. 50 ohm at 50 MHz to 1 GHz. **Coupling:** ac. **Attenuetor:** Timas 1, 10 (10 Hz-80MHz). **Seneitivity:** 10 Hz to 80 MHz: 20 mV rms into 1 Mohm. 50MHz to 1GHz: 50mV rma into 50 ohms. **Max. Input Voltage:** 100 V rms at 10 Hz to 400 Hz into 1 Mohm. 20 V rms at 400 Hz to 100 kHz into 1 Mohm. 5 V rma at 100 kHz to 60 MHz into 1 Mohm. 5 V rms at 50 MHz to 1 GHz into 50 ohms. **TIME BASE Frequency:** 1 MHz, cryatal controllad. **Accurecy:** ± 0.03 ppm, 0° to 40°C.

LEADER 4-1/2 DIGIT — 150 MHz PORTABLE COUNTER

MODEL LDC-831 REG. $210.00 OUR PRICE $178.50



DESCRIPTION
Tha LDC-831 is a 4-1/2-digit 150-MHz battary-powarad countar. Its small aiza and portability maka it idaal for fiald aarvica application: an optional AC adpator convarts it to banch usa. Simpla controls and a large, bright LED display maka it aasy to oparata. For high frequancy applications, tha LDC-631 can provida up to 6-1/2 digits of rasolution. Tha fiva most significant digita ara diaplayad using tha 0.01 sacond gata tima. By than awitching to tha 1 aacond gata, all four digits to tha right of tha dacimal point ara displayad. Tha combination of tha two raadinga yialds 6-1/2 digits of raaolution. Tha LCD-831, with its wida fraquancy ranga, 10 ppm accuracy and quality conatruction will giva yaars of raliabla sarvica.

SPECIFICATIONS
Frequency Renge: 5 Hz to 150 MHz. **Reeolution:** Low Ranga: 100 Hz (0.01 s gata tima). 1 kHz (1 s gata tima). High Ranga: 10 kHz (0.01 a gata tima). 100 Hz (1 a gata 'ima). **Dieplay:** 4-1/2 digit LED. **Time Beee:** Fraquancy: 3.2768 MHz. Accuracy: 10 ppm, 23 ±3°C. 50 ppm, 0-40°C. **Seneitivity:** Low Ranga: 5 to 10 Hz 50 mV rma. 10 Hz to 1 MHz 35 mV rms. 1 to 20 MHz 50 mV rma. High Ranga: 1 to 2 MHz 50 mV rma. 2 to 120 MHz 35 m V rms. 120 to 150 MHz 50 mV rma. **Input Impedence:** Low Ranga: 1 Mohm nominal (AC couplad). High Ranga: 2.5 kohm nominal (AC couplad). **Opereting Temperature:** 0 to 40°C. **Power Requirementa:** 4 "C" cells (suppilad). External powar via LPS-166F. AC adaptor (optional). **Dimenelone:** (WHD) 6-3/16"x 2-1/4"x 4-3/4". **Weight:** 1.1 lbs.
Optionel Acceeeorlee: LPS-166F AC Adaptor . . .$00.00. CC-651 Carrying Casa . . .$00.00.

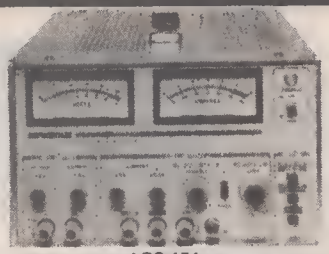
LEADER TRIPLE OUTPUT DC POWER SUPPLIES

MODEL LPS-151

REG. $359.00 OUR PRICE $360.00

MODEL LPS-152

REG. $495.00 OUR PRICE $449.95



LPS-151

LPS-152

FEATURES

- Auto tracking. • Half rack mountable.
- Metered output. • Less than 3 mV p-p ripple.
- Current limited with automatic recovery.

DESCRIPTION

The LPS-151 and LPS-152 are Triple Output DC Power Supplies which can be either half rack mounted or used on the test bench. The metered output voltages are adjustable, 0 to 8 volts, 0 to +25 volts and 0 to −25 volts on both models making them ideal for computer subassembly, circuit board, semiconductor and system burn-in test applications. All three outputs have independent adjustable current limiting with an auto recovery feature which allows the output voltage to return to normal when the short or overload condition is removed. Both units also feature a tracking output mode which allows an adjustable ratio of positive vs. negative voltage between the 25 volt outputs. The adjustment range is from 100% -100% to 50% -100%. Ripple is less than 3 mV p-p and output stability is rated at less than 3 mV for ±10% input line voltage variation and 0 to 100%. Both power supplies carry Leader's full Two Year Warranty.

SPECIFICATIONS

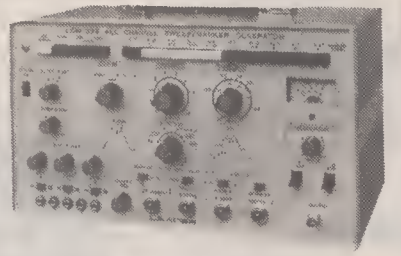
OUTPUT: Voltage, 0 to +8 V adjustable, 0 to +25 V adjustable, 0 to −25 V adjustable. **CURRENT: LPS-151,** 0 to 8 V output - 3.0 A max. ±25 V outputs - 0.5 A max. **LPS-152,** 0 to 8 V output -5.0 A max, ±25 V outputs -1.0 A max. **Power Requirements:** 100, 120, 200, 220, 240 VAC ±10%, 50/60 Hz, LPS-151 approx. 120 VA, LPS-152 approx. 220 VA. **Dimensions: (WHD)** LPS-151 8-1/2" x 5-1/4" x 13", LPS-152 8-1/2" x 5-1/4" x 14-1/8". **Weight:** LPS-151 13-1/2 lbs, LPS-152 15-3/4 lbs.

LEADER ALL CHANNEL SWEEP MARKER GENERATOR

MODEL LSW-333

REG. $775.00

OUR PRICE $695.00



DESCRIPTION

For checking and aligning all tuned circuits in TV-VHF/UHF and FM receivers, quickly and accurately. Unique solid state circuitry allows the LSW-333 with the aid of a scope, to align tuners, video, sound and IF amplifiers in half the time. Sweep section covers TV CH's 2 to 13 & 14 to 83. Video sweep modulation is available for VIF and chroma circuit checking. FM-IF and RF sweeps are also included. The marker section is unusually accurate, permitting use of 100 kHz and 1 kHz side markers on all marker signals. Trap adjustments and alignments are easier thru the use of 10 VIF markers with horizontal and vertical tilt plus a 1 kHz AM modulation signal. Polarity reversal switches for inverting both vertical and horizontal traces plus 3 bias supplies are also present. Vertical gain features X5 mag. while sweep output voltage is over 100mV/RMS into 75 ohms.

SPECIFICATIONS

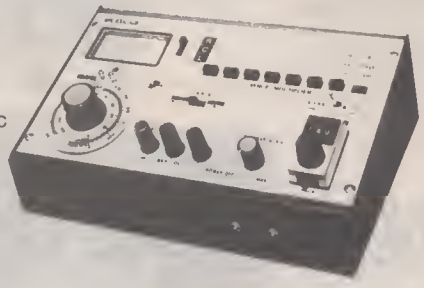
Marking Method: Post injected Birdy type. **Sweep Rate:** 60 Hz. **Sweep Linearity:** Within 10%. (3 point method). **Output Voltage:** Over 100 mVrms into 75 ohms. **Output Impedance:** 75 ohms, unbalanced. **Output Control:** 30 dB in 10 dB steps and variable (40 dB range) 30 dB in 10 dB steps (UHF only). **Marker Size:** 0 to 1 volt/p-p, adjustable. **Marker Tilt:** Vertical or horizontal. **Display Polarity:** Normal or inverted for vertical and/or horizontal axes. **Bias Supplies:** Two 0 to ±25V, one 0 to ±75V. **Horizontal Output:** 10 V/p-p, special 15.75 kHz filter for line rate supression. **Power:** 115, 50/60 Hz, 8VA. **Size (HWD):** 8-1/2 x 13-7/8 x 8-1/2". **Weight:** Approx 11 lbs.

LEADER TRANSISTORIZED LCR BRIDGE

MODEL LCR-740

REG. $365.00

OUR PRICE $310.25



FEATURES

- Highly accurate, 3 digit readout.
- Operates on one 9V battery or with AC adaptor.
- Measures inductance, capacitance, resistance and loss factor.

SPECIFICATIONS

- **Inductance Measurement:** Range: 0.1uH-1100H, 10uH, 100uH, 1 mH, 10 mH, 100 mH, 1 H, 10 H, 100 H, 8 ranges. Over-Range: 10%. Resolution: 0.1uH. Accuracy: 100uH-10H range ±(0.5% +0.1% FS) 100 H range ±(1% +0.1% FS) 10uH range ±(3% +0.1 FS). Loss Factor Ranges: (D) 0.01 to 30 in 2 ranges. Accuracy ±(10% of reading +3 minor divisions of scale) 1 kHz. Frequency: Int. 1 kHz ±50 Hz Ext. 50 Hz-40 kHz.
- **Capacitance Measurement:** Range: 1 pF-11,000 uF, 100 pF, 1,000 pF, 0.01 uF, 0.1 uF, 1 uF, 10 uF, 100 uF, 1,000 uF in 8 ranges. Over-Range: 10%. Resolution: 1 pF. Accuracy: 100 pF-100 uF range ±(0.5% +0.1% FS) 100 pF range ±(1% +0.1% FS) 1,000 uF range ±(3% +0.1% FS). Residual: Approx. 3 pF.
- **Resistance Measurement:** Range: 0.001 ohm-11M ohm, 0.1 ohm, 1 ohm, 10 ohm, 100 ohm, 1K ohm, 10K ohm, 100K ohm, 1M ohm in 8 ranges. Over-Range: 10%. Resolution: 1M ohm. Accuracy: 1 ohm-100K ohm range ±(0.5% +0.1% FS) 1M ohm range ±(1% +0.1% FS) 0.1 ohm range ±(2% +0.1% FS). Residual Resistance: Approx. 3M ohm.
- **Power Supply:** One 9V battery. CR AC adaptor.
- **Size:** 3-3/8"H x 9-1/2"W x 6-3/4"D. • **Weight:** 5 lbs.
- Comes with instruction manual, cable for external input, miniature earphone (for null detecting), and 9V transistor battery.

LEADER SEMICONDUCTOR CURVE TRACER

MODEL LTC-905

REG. $255.00

OUR PRICE $216.75

DESCRIPTION

The LTC-905 permits displaying the characteristic curves of all types of semiconductors (NPN, PNP, triacs, SCR's FET's, MOSFET's, zener, signal, and rectifier diodes, etc.) on virtually any oscilloscope. Used in labs, classrooms, and for production-line testing, the LTC-905 will measure (both in and out-of-circuit) gain (beta), cutoff, leakage and output admittance. The LTC-905 provides 8 selectable collector sweep voltages from 10 to 100 volts along with a full set of step-generator currents and voltages.

SPECIFICATIONS

COLLECTOR/SWEEP—Sweep Frequency: 120 Hz. **Sweep Waveform:** Full wave rectified waveform. **Sweep Voltage:** 10, 20, 30, 40, 50, 60, 80 and 100 V selectable in 8 steps, ±10%. **Current:** 100 mA maximum. **Step Polarity:** + or −. **Dissipation Limiting Resistor:** Small-signal devices-1,000 ohm. Power devices-100 ohm. **STEP GENERATOR—Current Ranges:** 10, 20, 50 uA and 0.1, 0.2, 0.5, 1, 2mA per step, ±5%. **Voltage Ranges:** 0.1, 0.2, 0.5 V per step, ±5%. **Number of Steps:** 7. **Ext. Bias:** Write one curve, using external bias supply. **H. Length:** Horizontal gain control for oscilloscope. **Dimensions:** (WHD) 9-3/8" x 3-1/2" x 6-1/4". **Weight:** 7 lbs. **Accessories Supplied:** Instruction manual, Two test cables, Three oscilloscope cables with alligator clips, LP-11 three point probe for in-circuit testing.

LEADER VTR HEAD CHECKER

MODEL LHC-909B (BETA)

MODEL LHC-909V (VHS)

REG. $99.95 OUR PRICE $89.95

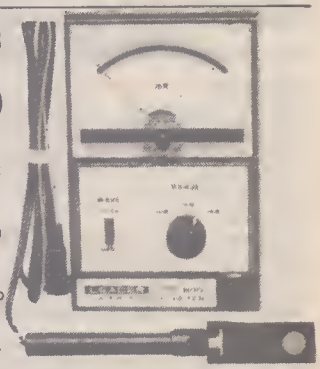
DESCRIPTION

The LHC-909 provides a fast, convenient method for checking videotape recorder head wear electronically. This is accomplished by a bridge type inductance meter using a 1 MHz test signal. Three measurement ranges are available. The analog meter scale "7 to 0" indicates headwear. Typically, any reading below "0" indicates heads require replacement although the inductance range and acceptable headwear tolerance should be specified by the VTR manufacturer. The instrument's small size and battery operation allows for excellent portability and requires minimum bench space. Two versions of the LHC-909 are available; the LHC-909B for Beta and Umatic VTR's and the LHC-909V for VHS heads.

LEADER LASER POWER METER

MODEL LPM-8000

REG. $239.95 OUR PRICE $225.00



DESCRIPTION

The LPM-8000 is a simplified laser power meter. Receiving laser beams with its sensor, the instrument indicates measured values on the meter. Measuring range for wavelength can be selected between two ranges, 632.8nm (633nm) and 750-820nm, and the measuring range for power voltage can be selected in range from 0.3W to 3mW. The measuring level of 633nm is available for the measurement of helium-neon ray apparatus; while, the measuring range of 750-820nm for the measurement done for digital audio disc players.

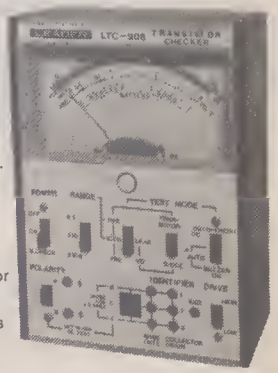
SPECIFICATIONS

Measuring Range for Wavelength: 632.8nm (633nm) or 750nm to 820nm, 2 ranges. **Measuring Range for Power Voltage:** 0.3mW to 3mW. **Power Range:** Converted among 0.3mW, 1mW, and 3mW. **Measuring Accuracy:** ±5% or less of whole measuring scale (when joined to sensor). **Sensor Section:** Light-catcher area: 10mm (Allowable dissipation of silicon photodiode: 200mW). **Main Body Size:** 90(W) x 31(H) x 140(D) mm. **Sensor Section Size:** 18(W) x 4(H) x 40(D) mm, movable with an 80 cm cable. **Indicator Section:** Coil-type meter with a moving needle. **Weight:** 9-1/2 lbs. **Accessories Supplied:** Protective Carrying Case.

LEADER AUTOMATIC TRANSISTOR CHECKER

MODEL LTC-906

REG. $220.00 OUR PRICE $187.00



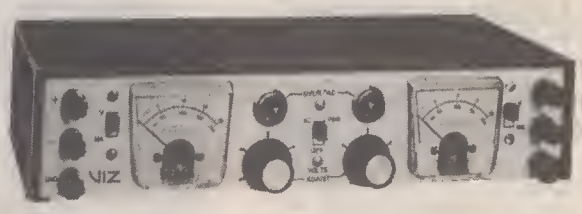
FEATURES

- Lights up, sounds off, measures, identifies, displays.
- Automatically identifies Germanium or Silicon, plus emmiter base and collector.
- LED displays plus audible tone indicates defective or good performance.
- Absolute meter readout of DC parameters.
- A multipurpose, portable, transistor checker automatically better for laboratory, shop and school.
- Checks transistors, FET's, diodes, good or bad and in or out of circuit.
- Automatically tests a broad range of parameters with simple, program on-off switches—no confusing buttons or lead changes.
- Dimensions: (WHD) 4-1/4"x 6" x 2-1/8". • Weight: 1 lb.
- Comes with 9V transistor battery, test cable with 3 alligator clips, instruction manual.

TEST INSTRUMENTS

VIZ POWER SUPPLY
MODEL WP-702A

REG. $199.00 OUR PRICE $169.95



DESCRIPTION
The WP-702A is a solid-state, constant-voltage DC power supply. This versatile bench-type unit is ideally suited for use in circuit design, servicing, industrial and educational applications.

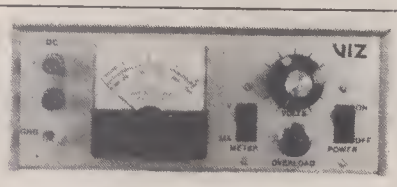
FEATURES
- Continuously adjustable voltage output down to 0 volts.
- Electronic short-circuit protection — short across the output terminals won't harm the supplies.

SPECIFICATIONS
- Output: 0 to 20 volts, at 0 to 200 mA.
- Input: 105-135 V AC, 50-60 Hz (may be rewired for 220-240 V AC).
- Line Regulation: Less than 30 mV change in output voltage with power-line variation of 105-135 V AC.
- Load Regulation: Less than 50 mV voltage change for a 200 mA load change.
- Ripple: Less than 500 uV RMS.
- Meter Functions: 0-20 volts 0-200 mA (function selected with panel switch).
- Controls: Continuously variable voltage adjustment.
- Output Terminals: Three; DC + DC—, GND. Positive or negative output can be obtained.
- Short Circuit Protection: External short circuit load will not damage supply.
- Overload Indicator: Panel lamp glows when current level nears 200 mA rating.
- Power Cord: 3-wire power-line cord.
- Dimensions: 6" x 12" x 3" (152mm x 305mm x 76mm).
- Weight: WP-702A: 3 lbs., 10 oz. (2.2 kg).

VIZ POWER SUPPLY
MODEL WP-703A

REG. $139.00

OUR PRICE $125.00



DESCRIPTION
The WP-703A is a solid-state, constant-voltage DC power supply. This versatile bench-type unit is ideally suited for use in circuit design, servicing, industrial and educational applications.

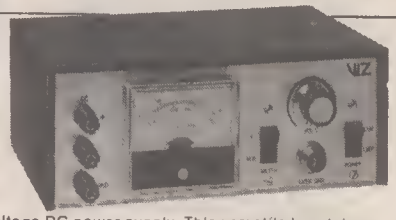
FEATURES
- Continuously adjustable voltage output down to 0 volts.
- Electronic short-circuit protection — short across the output terminals won't harm the supplies.

SPECIFICATIONS
- Output: 0 to 20 V, 0 to 500 mA.
- Line Regulation: 7 mV (Max. change in output level with power-line variation of 110 to 135 V AC).
- Load Regulation: Less than 10 mV change for a 500 mA load change.
- Ripple: Less than 200 uV rms.
- Meter Functions: 0 to 20 V, 0 to 500 mA (Function selected with panel switch).
- Controls: Continuously variable voltage adjustment, Power on/off, Meter selector V/mA.
- Output Terminals: DC+, DC—, GND. (pos. or neg. output).
- Short Circuit Protection: Protected from damage due to external short circuit.
- Overload Indicator: Panel lamp glows when current approaches max. level.

VIZ POWER SUPPLY
MODEL WP-704A

REG. $149.00

OUR PRICE $129.95



DESCRIPTION
The WP-704A is a solid-state, constant-voltage DC power supply. This versatile bench-type unit is ideally suited for use in circuit design, servicing, industrial and educational applications.

FEATURES
- Continuously adjustable voltage output down to 0 volts.
- Electronic short-circuit protection — short across the output terminals won't harm the supplies.

SPECIFICATIONS
- Output: 0 to 40 V, 0 to 250 mA.
- Line Regulation: 15 mV (Max. change in output level with power-line variation of 110 to 135 V AC).
- Load Regulation: Less than 20 mV change for a 250 mA load change.
- Ripple: Less than 500 uV rms.
- Meter Functions: 0 to 40 V, 0 to 250 mA (Function selected with panel switch).
- Controls: Continuously variable voltage adjustment, Power on/off, Meter selector V/mA.
- Output Terminals: DC+, DC—, GND. (pos. or neg. output).
- Short Circuit Protection: Protected from damage due to external short circuit.
- Overload Indicator: Panel lamp glows when current approaches max. level.

VIZ SUPPLYIST

MODEL WP-711
REG. $289.00
OUR PRICE $259.00

MODEL WP-712
REG. $299.00
OUR PRICE $269.00

MODEL WP-713
REG. $389.00
OUR PRICE $359.00

WP-711 [0-40V, 0-1 amp]

WP-712 [0-20V, 0-2 amps]

WP-713 [DUAL 0-20V, 0-1 amp]

FEATURES
- It's a DC power supply. (WP-713 is a Dual Supply).
- It's a dual DC voltmeter.
- Excellent line and load regulation.
- Fully adjustable voltage output settable to 0.1V.
- Fully adjustable current 0-1A settable to 0.01A (WP-712, 0-2A).
- Automatic short circuit shut down (current limiting) with 'Reset' button.
- LED overload indicators.
- Dual (2) 3 digit LED readouts monitor voltage/current.
- Dual (2) external DC digital voltmeters.
- Complete with test leads.

DESCRIPTION
The VIZ family of fully regulated DC Power Supplies was designed to give 'Laboratory' type performance. They are ideally suited for use in servicing a wide variety of electronic equipment as well as production testing, circuit design and educational applications.

Each supply has current limiting, and voltage adjust controls.

Careful consideration has been given in the design to provide complete protection to both the load and the power supply.

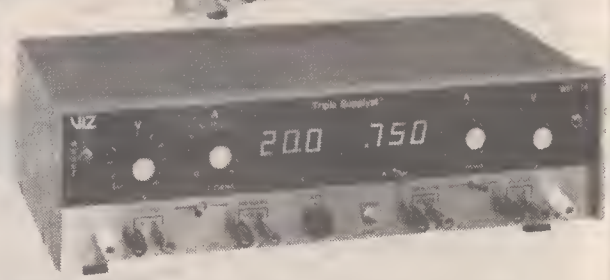
Both voltage and current can be monitored simultaneously on the two digital panel meters provided on the WP-711 and WP-712. On the WP-713 Dual Supplyist the two digital panel meters can be switched to monitor voltage and/or current of either output, also the two outputs can be externally connected in series to give 0-40V at up to 1A.

Each Supplyist is also a dual DC digital voltmeter. Separate inputs on the front panel allow the measurement of two independent DC voltages up to 99.9 volts.

VIZ TRIPLE OUTPUT
MODEL WP-714

REG. $419.95 OUR PRICE $369.95

TRIPLE DC SUPPLY
0-20V @ .75 amp
0-20V @ .75 amp
Fixed 5 volt @ 4 amp



FEATURES
- It's a triple DC Power Supply.
- It's a dual DC Voltmeter.
- Three separate completely isolated DC power supplies: two 0-20V at .75A, one fixed 5V at 4A.

DESCRIPTION
The VIZ Model WP-714 is a fully regulated, triple DC power supply designed to give 'Laboratory' performance. It is ideally suited for use in circuit breadboarding, production testing, servicing and repair, and educational applications. Its excellent regulation and protection circuitry make it ideally suited for use with Microprocessors.

The two varible supplies have adjustable current limiting and controls for setting output voltages from 0 to 20V DC. These can be externally connected in series to give 0-40V DC at up to .75A.

The third supply is a fixed output capable of delivering up to 4 amperes at 5V DC. The fixed supply also has built-in voltage sensing which assures the best possible regulation at the load.

Dual digital panel meters, with high efficiency .56" red LED indicators, monitor output voltage or current

The WP-714 Supplyst is also a dual DC digital voltmeter. Separate inputs on the front panel allow the measurement of two independent DC voltages up to 99.9 volts.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

VIZ DC POWER SUPPLY/DUAL DC VOLTMETER/DUAL SUPPLY

MODEL WP-705
REG. $369.00
OUR PRICE $325.00

MODEL WP-706
REG. $369.00
OUR PRICE $319.95

MODEL WP-707
REG. $479.00
OUR PRICE $419.95

WP-705 [50V, 0-2A]

WP-706 [25V, 0-4A]

WP-707 [Dual 25V, 0-2A]

FEATURES

- Excellent line and load regulation.
- Fully adjustable voltage output settable to 0.1V.
- Fully adjustable current 0-2A settable to 0.01A (WP-706, 04A).
- Automatic short circuit shut down (current limiting) with 'Reset' button.
- LED overload indicators.
- Dual (2) 3 digit LED readouts monitor voltage/current.
- Dual (2) external DC digital Voltmeters.
- Complete with test leads.

DESCRIPTION

The VIZ family of fully regulated DC Power Supplies was designed to give 'Leboratory' type performance. They are ideally suited for use in servicing a wide variety of electronic equipment as well as production testing, circuit design and educational applications.

Each supply has adjustable current limiting and dual concentric controls for setting output voltage.

Careful consideration has been given in the design to provide complete protection to both the load and the power supply.

Both voltage and current can be monitored simultaneously on the two digital panel meters provided on the WP-705 and WP-706. On the WP-707 Dual Supplyst the two digital panel meters can be switched to monitor voltage and/or current of either output, also the two outputs can be externally connected in series to give 0-50V at up to 2A.

Each supplyst is also a dual DC digital voltmeter. Separate inputs on the front panel allow the measurement of two independent DC voltages up to 99.9 volts.

SPECIFICATIONS

Output Current: 0-2 amps (0-4A, WP-706) over entire voltage range; full load. **Load Regulation:** 0.75% max. (0.1%, WP-706) over full operating range. **DC Voltmeter Input:** 99.9V DC full scale, 0.1V resolution. **Input Impedance:** 5 megohms. **Panel Meters:** 3 digit, 43" LED, resolution 0.1V and 0.01A, accuracy 1% ±1 digit. **Size (HWD):** 4 x 15 x 9-1/2" (10 x 38 x 24cm). **Supplied: WP-705, WP-706:** One WG-413A test leads with dual banana plug. **WP-707:** Two WG-413A test leads with dual banana plug.

VIZ DC TRIPLE POWER SUPPLYST

MODEL WP-708
REG. $539.95
OUR PRICE $459.95

Triple Supplyst
It's a DC Power Supply
It's a DUAL DC Voltmeter

- **Three separate completely isolated DC power supplies: two 0-20V @ 0-2A, one fixed 5V @ 4A.**

FEATURES

- It's a dual DC Voltmeter.
- It's a triple DC Power Supply.
- Three separate completely isolated DC power supplies: two 0-20V at 0-2A, one fixed 5V at 4A.
- Excellent line and load regulation.
- Fully adj. current limiting on the two variable supplies.
- Automatic short circuit shut down (resettable) on the two variable supplies and current fold-back on fixed supply.
- (LED) overload indicators.
- Dual (2) 3 digit LED readouts monitor voltage/current.
- Dual (2) external DC digital voltmeters.
- Remote sensing on fixed 5V supply.
- Complete with test leeds.

DESCRIPTION

The VIZ Model WP-708 is a fully regulated triple DC power supply designed to give 'laboratory' type performance. It is ideally suited for use in circuit breadboarding, production testing, servicing and repair and educational applications. It's excellent regulation and protection circuitry make it ideally suited for use with Microprocessors.

The two variable supplies have adjustable current limiting and dual controls for setting output voltages from 0 to 20 VDC . These can be externally connected in series to give 0-40 V DC at up to 2 amps.

The third supply is a fixed output capable of delivering up to 4 amperes at 5 V DC. The fixed supply also has built-in voltage sensing which assures the best possible regulation at the load.

Dual digital panel meters, with high efficiency .43" red LED indicators, monitor output voltage or current.
The WP-708 supplyst is also a dual DC digital voltmeter. Separate inputs on the front panel allow the measurement of two independant DC voltages up to 99.9 volts.

SPECIFICATIONS

DUAL VARIABLE OUTPUTS—Output Current: 0-2 amps over entire voltage range, full load. **Load Regulation:** 0.075% max. over full operating range. **Output Impedance:** Greater than 2 ohms DC to 10 kHz. **Input Impedence:** 5 megohms. **Panal Matar:** 3 digit, 43" LED, resolution 0.1V and 0.01A, accuracy 1% ±1 digit. **Size (HWD):** 4 x 15 x 9.5" (10 x 38 x 24cm). **Weight:** 16.5 lbs. (7kg). **FIXED OUTPUT—Output Current:** 0 to 4A max. **Load Regulation:** 0.05% max. **Output Impedance:** Greater than 2 ohm DC to 10 kHz (no reset). **Input Impedence:** Not applicable. **Panal Meter:** Not applicable.

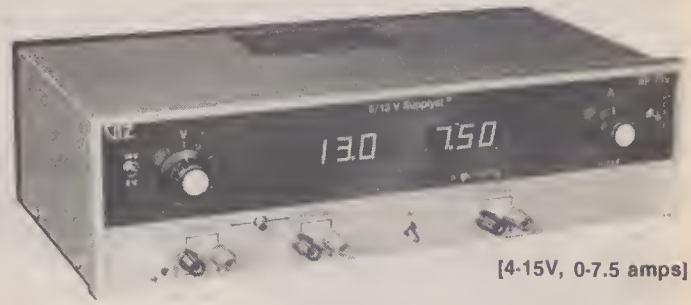
VIZ 7.5 AMPERE DC POWER SUPPLY

MODEL WP-709

REG. $389.95 OUR PRICE $339.95

DESCRIPTION

The WP-709 is ideally suited for 5V logic work where a heavy current source is needed—or most automotive electronic needs where a 5V or 13.5V supply is needed for equipment such as communications transceivers, AM/FM radios, tape players or 'on board' microprocessors. Pretesting of entire auto HI FI systems before installation including power antennas can be performed, as this is within the power handling capability of the WP-709.



[4-15V, 0-7.5 amps]

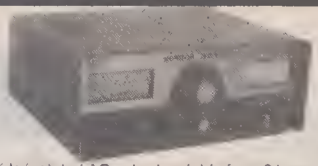
FEATURES

- Output: Adj. 5 ± 1.5V or 13V ± 1.5V switch selecteble. Current to 7.5 settable to .01A.
- Load Reg.: 0.1%. Line Reg.: 0.05%.
- Ripple: 10 mV PP max.
- Output Impedance: Less than 2 ohms DC to 10 kHz.
- Load Protection: Current foldback auto shutdown.
- Temp. Rise at Full Load: 50°F (26°C.)
- Weight: 17 lbs.

SPECIFICATIONS

Output Voltage: 3.5-6.5V or 11.5-14.5V (switch selectable). **Output Current:** 0-7.5A full load. **Loed Regulation:** 0.1% max. **Line Regulation:** 0.05% max. full load from 110-125 VAC. **Ripple:** 15mVrms max. **Overshoot:** No overshoot at turn-on, turn-off or reset. **Output Impedance:** Less than 2 ohm DC to 10 kHz. **Output VS Temp.:** 0.05% per degree C. **Load Protection:** Current foldback and automatic shut down. **DC Voltmeter Input:** 99.9 full scale, .1V resolution. **Input Impedence:** 5 megohms. **Panel Meter:** 3 digit .56" LED, resolution 0.1V and 0.02A, accuracy 2% ±1 digit. **Size (HWD):** 4 x 15 x 9-1/2" (10 x 38 x 24cm). **Weight:** 17 lbs. (7.7kg). **Power Required:** 110/120, 50/60 Hz, 220/240, 50/60 Hz.

VIZ MONITOR ISO-V-AC II
MODEL WP-30
REG. $369.00

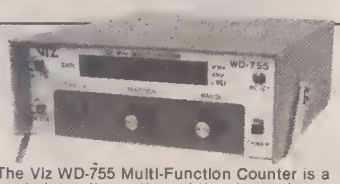


OUR PRICE $325.00

DESCRIPTION
The Viz WP-30 Monitor ISO-V-AC is designed to provide isolated AC output variable from 0 to approximately 150 volts. It can supply a continuous 5 amp output current to a maximum of 650 VA. The output current can be set to the maximum output desired, at which point, a latching relay will open circuit end reduce output volts and amps to zero. Two parallel, three prong AC sockets are provided to allow the operator to use the unit for more than one load
The WP-30 also includes a leakage tester that can measure AC leakage current in electrical/electronic equipment in order to verify if the leakage is within limits established by UL, CSA. The WP-30 is supplied with two 3½ meters. One monitors line or output voltage and the other can display output current or leakage.
For safety, the metal case of the WP-30 is connected to the power line ground through the three conductor AC power cord. The AC input is separately fused.

SPECIFICATIONS
Input 110 to 130VAC 60 Hz. **Output Isoleted Voltage (120 VAC Input)** 0 to 150 VAC. **Output Isoleted Current** 0 to 5.0 Amps Max. (see performance curve). **Totel Maximum Output** 650VA (Resistive Load) **Output Isoletion** Less than 0. 1MA (Meet ANSI Spec. C101.1, 1971) **Leakege Renge:** 0-2.5 MA. **Meters** Two 3½" Taut Band. **Meters Accuracy** ± 3% of full scale on voltage, ± 2% of full scale on current and leakage. **Protection** AC Input-Fuse, AC Output-Adjustable current relay with manual Reset. **Temp. Rise (Outside case, full loed 130V, 5A)** 10°C (50°F). **Dimensions (HWD)** 6" x 14" x 12½". **Weight** 25 lbs.

VIZ MULTI-COUNTER
MODEL WD-755
REG. $299.00

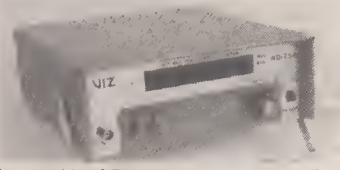


OUR PRICE $259.95

DESCRIPTION
Viz Model WD-755 is a 125 mHz Multi-Counter. The Viz WD-755 Multi-Function Counter is a lab quality multi-counter capable of frequency, period, totalize, ratio and time-interval meesurements. A combination of CMOS, TTL, low power Schottky and LSI technology have been utilized to keep power consumption and cost low, while maintaining optimum circuit charecteristics. Some valuable features of the WD-755 Include bright LED 8-digit display with leading zeros blanked, autometic input triggering level, convenient switchable attenuator, selectable low-pass filter, pushbutton reset switch, and rear panel BNC clock input/output connector. All critical circuits are enclosed in shielded metal chassis to reduce E.M.I./R.F.I.

SPECIFICATIONS
OPERATING RANGES—Frequency: Channel 'A'—5 Hz to 125 mHz. 5 Hz to 10 mHz with LFP et less than 10 mHz position. **Period:** Channel 'A'—5 Hz to 2 mHz. **Unit Count:** Channel 'A'—5 Hz to 10 mHz. **Frequency Ratio:** A/B—Channel 'A': 5 Hz to 10 mHz. Channel 'B': 5 Hz to 2 mHz. **Time Interval:** A-B—5 Hz to 2 mHz. **CHARACTERISTICS—CHANNEL 'A'—Input Impedence:** 1 megohm shunted by less than 30 pF. **Sensitivity:** 5 Hz to 5 kHz, 25mV RMS. 5 kHz to 100 mHz, 15mV RMS. 100 mHz to 125 mHz, 25mV RMS. **CHANNEL 'B'—Input Impedance:** 100 k ohms. **Sensitivity:** 5 Hz to 2 mHz Sine Wave input-20mV RMS. **TIME BASE—Crystal:** 10 mHz perallel resonence, precision grade. **Calibretion Tolerence:** ±.001% (10 PPM). **Stability Tolerance (Tempereture & Aging):** ±.002% (20 PPM). **Overall Frequency Accuracy:** ±.003% (30 PPM) ±1 digit. **Input Level:** TTL. **Output Level:** Approx. 50mV peak to peak. **Power Requirements:** 105 to 125 V AC 50/60 Hz, 6W.

VIZ FREQUENCY COUNTER
MODEL WD-754
REG. $259.00

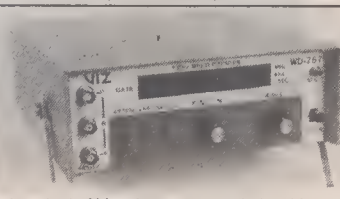


OUR PRICE $220.15

DESCRIPTION
The Viz WD-754 is e lab quality frequency counter capable of Frequency measurements from 5 Hz to 100 MHz. A combination of CMOS, TTL, low power Schottky and LSI technology have been utilized to keep power consumption and cost low, while maintaining optimum circuit characteristics. Some valuable features of the WD-754 include bright LED 8-digit display with leading zeroes blanked, automatic input triggering level, convenient switchable ettenuator, and selectable low-pass filter. All critical circuits are enclosed in shielded metal chassis to reduce E.M.I./R.F.I.

SPECIFICATIONS
OPERATING RANGES Frequency: Chennel 'A': 5 Hz to 10 Mhz, 5 Hz to 100 MHz with IPF at no less then 10 MHz position. **CHARACTERISTICS CHANNEL 'A' Input Impedance:** 1 megohm shunted by less then 30 pf. **Coupling:** A.C. **Sensitivity:** 5 Hz to 5 KHz-25mV RMS, 5 KHz to 100 MHz-15mV RMS. **Attenuetor:** "OUT" = direct (no attenuation), "IN" = input signal decreased to 1/10th value. **Low Pass Filter:** Manually selectable, for input signals under or over 10 MHz. **Trigger Level:** Automatic. **Overloed Level:** AC + DC 125V peak to peak. **RESOLUTION GATETIME:** .01, sec .1 sec, 1 sec, 10 sec., **Frequency under 10 MHz:** 100 Hz, 10 Hz, 1 Hz, .1 Hz. **Frequency over 10 MHz:** 1000 Hz, 100 Hz, 10 Hz, 1 Hz. **TIME BASE Crystal:** 10 MHz Parallel, Resonance, Precision Grade. **Calibretion Tolerence:** ± .001% (10 PPM) **Stability Tolerence (Temperatue end Aging):** ± .002% (20 PPM). **Overell Frequency Accurecy:** ± .003% (30 PPM) ± 1 digit. **Power Requirements:** 105 to 125V A.C., 50.60 Hz. 6W. **Tempereture:** Operating 0°C to 35°C (32°F to 95°F), Storage -20°C to 50°C (-4°F to 122°F).

VIZ MULTI-COUNTER
MODEL WD-757 **REG. $525.00**
OUR PRICE $446.25



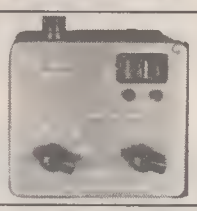
FEATURES
- Frequency mode.
- Period mode.
- Total mode - causes signal gate to be opened and closed by input signal-useful for counting switch closures, cycles contained in an RF burst, contact bounce of a relay, items passing on an assembly line.
- Frequency Ratio A/B mode - gives direct numerical readout of Lissajous pattern relationships, accuracy of frequency dividers and multipliers.
- Time Interval A-B mode - counts the elapsed time between two pulses.

DESCRIPTION
The Viz WD-757 is a lab quality multi-counter capable of Frequency, Period, Totalize, Ratio and Time-Interval measurements. A combination of CMOS, TTL low power Schottky and LSI technology have been utilized to keep power consumption and cost low, while maintaining optimum circuit characteristics. Some valuable features of the WD-757 include bright LED 8-digit display with leading-zeroes blanked, automatic input triggering level, convenient switchable attenuator, selectable low-pass filter, push-button reset switch, and rear panel BNC clock input/output connector. All critical circuits are enclosed in shielded metal chassis to reduce E.M.I./R.F.I.

VIZ ISOTAP (ISOLATION TRANSFORMERS)
MODEL WP-26A **REG. $109.95**
OUR PRICE $94.95

FEATURES
- Both units have primary and Isolated secondary windings.
- Primary to secondary current leakage less than 0.1 mA.
- WP-26A load reting Isolated 400 VA max continuous operaton.
- 3 position voltage selector sw., 3 wire AC cord.

VIZ ISOTAP II
MODEL WP-27A **REG. $113.00**
OUR PRICE $99.95



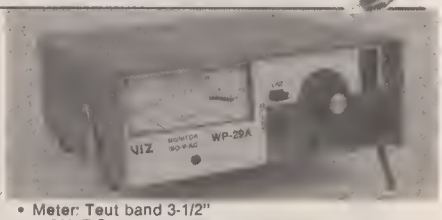
FEATURES
- Provides isolated output voltages from 25 VAC to 150 VAC in 5V steps. Up to 400 watt res. load.
- Ideal for safety, service TV SCR deflection systems. 3 wire AC cord, jacks for V monitor.

VIZ PORTA-ISOTAP
MODEL WP-28

Compact, lightweight unit. Ideal for TV servicing. Eesily carried for house calls. Has two fused outlets: (1) Isolated, 150 VA continuous for solid state TV; (2) Direct, 500 VA, a convenient power source for service instruments. Comes with accessory cords to take power from TV set back. No need to hunt for wall outlet. Weight 8 lbs. Dimensions 3-3/4" x 3-3/8" x 5-3/8".

REG. $69.00
OUR PRICE $59.95

VIZ MONITOR ISOVAC
MODEL WP-29A
REG. $189.00
OUR PRICE $160.65



FEATURES
- Supply Line: 110 to 130V. 60Hz.
- Power Rating (resistive load): 300VA.
- Isolated Output: 0 to 150V. 60 Hz.
- Leakage: Less then 0.1 mA.
- Isoleted Current: 0-2.25A mex.
- Meter: Teut band 3-1/2" ±2% F.S.
- Size: 3-3/8" x 8-5/8" x 9-1/2".
- Weight: 15" lbe.

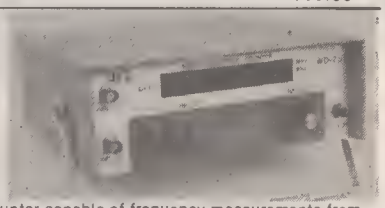
VIZ ISOLATION TRANSFORMER
MODEL WP-31A
REG. $179.00 **OUR PRICE $160.00**

DESCRIPTION
Viz Model WP-31A Is a 1.05 KVA, 120 VAC, Single Phase, Continuous Duty, Isolation Transformer. The WP-31A features three fixed 350 VA outputs, each isoleted from line end each other.

FEATURES
- Frequency range: 50-60 Hz.
- Number of phases: 1.
- Harmonic distortion at 1.0 P.F. Full Load: 1%.
- Leakage current from any of three sections to ground does not exceed 10 nano amps.
- Primary voltage: 110-125 VAC.
- Regulation: 4% at 115 VAC.
- Max. temperature: 55°C.
- Intermittent overload: 30% for 5 mine.
- Duty cycle: Continuous.
- Type of cooling: Air.

Model No.	Dascription	Our Price
WP-31B	1.05 KVA, HI (130V)/MED (115V)/LOW (105V)	$160.00
WP-31C	1.05 KVA, VAR. 0 to 155 Volt	185.00
WP-31D	1.05 KVA, VAR. 190 to 260 Volt	189.00

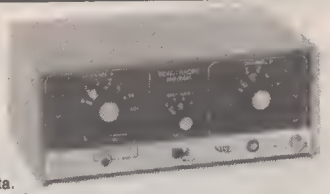
VIZ FREQUENCY COUNTER
MODEL WD-756
REG. $449.00
OUR PRICE $384.95



DESCRIPTION
The Viz WD-756 Is a lab quality frequency counter capable of frequency measurements from 5 Hz to 1 GHz. A combination of CMOS, TTL, low power Schottky and LSI technology have been utilized to keep power consumption and cost low, while maintaining optimum circuit characteristics. Some valuable features of the WD-756 include bright LED 8 digit display with leading-zero blanked, automatic input triggering level, convenient switchable attenuator and selectable low-pass filter. All critical circuits are enclosed in shielded metal chassis to reduce E.M.I./R.F.I.

SPECIFICATIONS
OPERATING RANGES Frequency: Chennel 'A' 5 Hz to 100 Mhz, 5 Hz to 10 MHz with LPF at no less than 10 MHz position. **Channel 'B'** 100 Mhz to 1000 Mhz. **CHARACTERISTICS CHANNEL 'A' Input Impedence** 1 megohm shunted by less than 30 pf. **Coupling** A.C. **Sensitivity** 5 Hz to 5 kHz 25mV RMS, 5 kHz to 100 MHz 15mV RMS. **Attenuator** "OUT" = direct (no attenuation), "IN" = input signal decreased to 1/10th value. **Low Paes Filter** Manually selectable, for input signals under or over 10 MHz. **Trigger Level** Automatic. **Overloed Level** AC + DC 125V peak to peak. **CHANNEL 'B' Input Impedance** 50 ohms (nominel). **Coupling** D.C. **Sensitivity** 50 mV RMS sine wave, 100 Mhz to 1000 Mhz. **Trigger Level** Automatic. **Overloed** ±25V D.C., 1V RMS A.C. **RESOLUTION GATETIME:** .01 sec. .1 sec 1 sec 10 sec. **Frequency under 10 MHz:** 100 Hz 10 Hz 1 Hz .1 Hz. **Frequency over 10 MHz:** 1000 Hz 100 Hz 10 Hz 1 Hz. **TIME BASE Crystel** 10 MHz Parallel Resonance, Precision Grade. **Calibration Tolerance:** ±.001% (10 PPM) **Stability Tolerence (Temperature and Aging):** ±.002% (20 PPM) **Overall Frequency Accurecy:** ±.003% (30 PPM) ±1 digit. **Power Requirements:** 105 to 125V A.C., 50/60 Hz, 7W. **Tempereture:** Operating 0°C to 35°C (32°F to 95°F), Storage -20°C to 50°C (-4°F to 122°F).

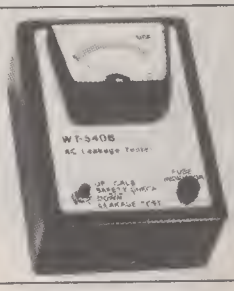
VIZ SCOPE DUAL-TRACER
MODEL WM-541A
REG. $110.00
OUR PRICE $39.00 SPECIAL!



FEATURES
- Choice of variable Alternate or Chopped switch rate.
- 1, 2, 5 ratio attenuators, CMOS circuitry, BNC connectors.
- Convert single trace scope to dual trace.
- Frequency response DC to 4 mHz —3 dB, Input Imp. 1M ohm shunted by 45 pF.

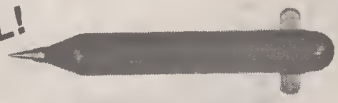
SPECIFICATIONS
- Frequency Response: Usable DC to 10 mHz (DC to 4 mHz, —3 dB).
- Attenuators: Compensated 8-step (1, 2, 5 ratio), each channel.
- Maximum AC Signal Input: 50 V p-p (500 V p-p with 10X probe).
- Maximum Signal Output: 1 V p-p. • Noise Level: Less than 10 mV p-p.
- Input Impedance: 1 M ohm shunted by 45 pF. • Switching Modes: Chopped or Alternate.

VIZ AC LEAKAGE TESTER
MODEL WT-540B
REG. $42.95
OUR PRICE $34.95 SPECIAL!



FEATURES
- Sharp probe point pierces dirt, grease, oxide, etc.
- Easy to use — only 1 range, no switches or dials.
- Red and green meter scale indicates "safe" or "unsafe" leakage.
- Fuse-protected against excessive current — panel lamp signals blown fuse.

VIZ CABLE IDENTIFICATION PROBE
MODEL WG-8629
REG. $39.95
OUR PRICE $29.95 SPECIAL!



DESCRIPTION
VIZ WG-8629 Stationman Probe . . . Designed for use by telephone/communications serviceman or installer to quickly identify cable pairs within a crowded cable/bundle terminal without breaking the circuit installation. An audible tone is injected in the line pair to be identified, the stationman attaches his headset to the probe "ears" to activate the probe, and listens for the pair with the tone signal input. The detected pair will radiate a signal level higher than any adjacent pair. Comes with interchangeable duck bill probe for checking large or tightly bundled cables. **Frequency range:** 10 Hz to 1 mHz. **Input impedance:** 1 meg. **Output impedance:** 220 ohms. **Output level:** 100 mV at 1000 Hz. Battery: 9 volt NEDA 1611 (not supplied). Size: 7" long x 1" dia. (approximately). Shipping weight: 1 lb.

RCA PORTABLE TRANSISTOR/DIODE TESTER
MODEL WT-501A
REG. $49.95
OUR PRICE $24.95 NEW!

FEATURES
- Measure DC beta (hFE) 1 to 1000 ±5%.
- Collector current 100 uA to 1A.
- Collector to base leakage to 100 A, collect to emit-leakage 1A.
- Large 4" meter, built-in NPN & PNP sockets plus leads.

VIZ DIGITAL POWER LINE MONITOR
MODEL WD-121
REG. $109.95
OUR PRICE $89.00 SPECIAL!

DESCRIPTION
Similar to WV-120B except, easy-to-read 3 digits LED display has large bright 0.8-in. digits. Indicates brown-out condition. Instantly shows line voltage fluctuations. Range from 0 to 500 VAC. Frequency 50 Hz to 80 Hz. Current limit 8A. Compact—approximately 4 x 5 x 3". Weight 1-1/2 lbs.

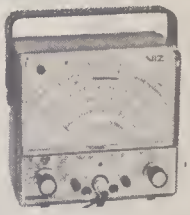
VIZ RF SIGNAL GENERATOR
MODEL WR-50C
REG. $189.00
OUR PRICE $159.95

FEATURES
- Tunable on fundamental 8 ranges 85 kHz to 40 mHz ±2% with swept output at 455 kHz and 10.7 mHz plus external xtal.
- RF output 0.05V rms, 2 step 10 to 1 plus fine adj. attenuator.
- Internal modulating frequency 600 Hz adj. to 80%.
- Audio output 8V rms across 15K ohm load.
- FET amplifier for rugged stability, 3 wire AC cord.

VIZ POWER LINE MONITOR
MODEL WV-120B
REG. $59.95
OUR PRICE $49.95 SPECIAL!

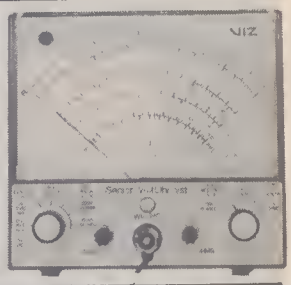
FEATURES
- Continuous AC line voltage readings.
- True rms reading even on distorted sine waves.
- Fast meter action reveals "bounces" caused by motor turn on.
- 3 wire AC plug with 3 conductor female socket for "in-line" use.

VIZ MASTER VOLTOHMYST
MODEL WV-510A
REG. $279.95
OUR PRICE $239.95



FEATURES
- Excellent stability.
- Battery or AC operated.
- Measures from 0.01 milliampere to 1.5 amperes in 7 ranges.
- Measures from 0.2 ohms to 1000 megohms in 7 ranges.
- Measures from 0.01 volt to 1500 volts DC in 8 ranges.
- Measures from 0.2 to 1500 rms AC volts in 7 ranges.
- Measures peak-to-peak voltages of complex waveforms from 0.5 to 4200 volts in 7 ranges.
- 21-megohm resistance on all DC ranges, 3% f.s. accuracy all function.
- Supplied with DC/AC ohms probe with flexible shielded in-put cable (BNC connector), end current test leads.
- Mirror scale meter—movement electrically protected against burnout.

VIZ SENIOR VOLTOHMYST
MODEL WV-98C
REG. $$227.95
OUR PRICE $189.95

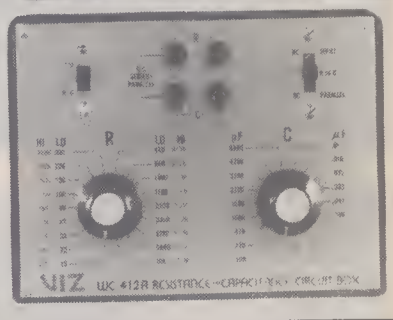


FEATURES
- 3 color meter face and panel for positive function identification peak to peak and rms scales.
- Meter electronically protected against overload.
- Response to 3 mHz, 11M ohm input resistance.
- Die-cast aluminum case.
- Easy-to-read 8-1/2" (16.4cm) mirror-scale meter.
- Measures from 0.2 ohm, 0.01 VDC, 0.05 VAC to 1000M ohm, 1500 volts DC and AC, ±3% accuracy all functions.

VIZ AUDIO SINE/SQUARE WAVE GENERATOR
MODEL WA-504B/44D
REG. $199.95
OUR PRICE $169.95

FEATURES
- Output 20 Hz to 200 kHz in 4 ranges, stability ±0.5% and ±5% dial cal.
- Voltage output 4 ranges 0.01 to 10V at 600 ohm.
- Sine wave harmonic distortion 0.15% square wave rise and fall 150 ns., tilt 2%.
- All solid-state, throughout, 3 wire AC cord.

VIZ RC CIRCUIT BOX
MODEL WC-412A
REG. $85.00
OUR PRICE $72.50



FEATURES
- 38 resistor in standard values from 15 ohms to 10 megohms (1 watt power rating, tolerance ±10%).
- 18 capacitors from 100 pF to 0.22 uF (600 V rating, tolerance ±10%).
- Includes test leads.

The WC-412A (formerly the WG-412A) provides a convenient selection of standard resistor and capacitor values available either separately or in series or parallel RC combinations.

VIZ FUNCTION GENERATOR
MODEL WR-550B
REG. $189.00
OUR PRICE $169.95

FEATURES
- Sine, sawtooth and square wave output 1 Hz to 1 mHz.
- Peak to peak output 0-20V at 600 ohm plus 10V adj. offset.
- 10 to 1 freq. sweep with ext. sweep voltage of any wave form.
- Freq. stability 200 PPM/C°, accuracy to 100 kHz ±5% of dial above 100 kHz ±8%
- TTL and CMOS compatible with sq. and sawtooth fix output 4 VDC.
- 3 wire AC cord.

BBC GOERZ METRAWATT DUAL TRACE OSCILLOSCOPES

20 MHz DUAL-CHANNEL SCOPE

MODEL M-6001

REG. $589.00 OUR PRICE **$499.00**

NEW!

60 MHz DUAL CHANNEL SCOPE With DELAYED SWEEP

MODEL M-6003

REG. $1095.00 OUR PRICE **$899.00**

SPECIAL!

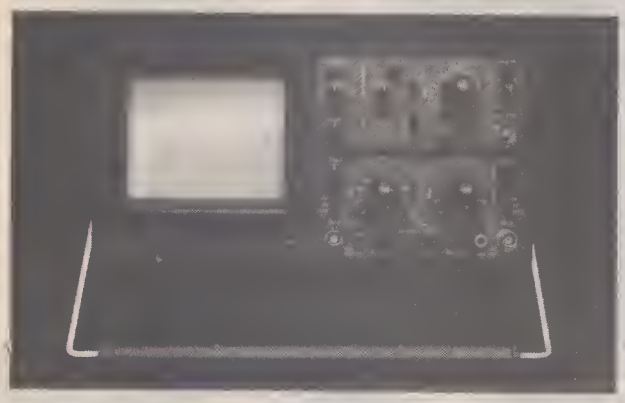
20 MHz DUAL-CHANNEL SCOPE With DELAYED SWEEP

MODEL M-6002 OUR PRICE **$789.00**

DESCRIPTION

The BBC (GOERZ METRAWATT) oscilloscopes are superior quality German made oscilloscopes which keeps in mind high performance at low cost. These units have easy to read, state of the art, rectangular tubes with internal graticules which prevent parralax reading errors.

The scopes lend themselves to laboratory work, servicemen and maintenance repair operations. Compare the specifications of each of these scopes and choose the unit which will fill your most demanding requirements.



M-6001

M-6002

M-6003

		M-6001	M-6002	M-6003
Cathode ray tube				
Dimensions		Rectangular, 8 x 10 div. 1 div. = 10 mm		1 div. = 9.7 mm
Graticule		Internal graticule, div. spacing: 0.2 sub division markings on major horizontal and vertical exes 10% and 90°markings for rise time measurements		
Graticule illumination		–	adjustable in 2 stages	
Acceleration potential		2 kV		14 kV
Intensity modulation (Z-axis)		–	positive TTL level, high = bright	
Trace rotation, intensity, focus		adjustable on front panel		
Display availability				
Single channel		channel I, channel I inverted, channel II		
Dual channel		alternate, chopped, sum end difference (± channel I + channel II)		
XY mode		horizontal: channel II vertical: chennel I same sensitivity ranges		
X-Y phese difference		3°(below 300 kHz)	3°(below 120 kHz)	3°(below 100 kHz)
Horizontal amplifier (chan. II)				
Frequency range (−3 dB)		0-2.5 MHz	0-1.8 MHz	0-5 MHz
Y amplifier (vertical)				
Bandwidth (−3 dB) (for all deflection fectors)		0-20 MHz		0-60 MHz 1 mV: 0-15 MHz
Rise time		≤ 17.5 ns(overshute max. 1%)		≤ 5.8 ns (overshute max. 1%)
Deflection factors	cal.	12 positions (1-2-5), 5 mV/div...20 V/div		
	var.	1:≥ 2.5(≤ 2 mV/div.)	≥ 2.5:1 (≥ 50 V/div.)	
Magnifier		–	–	x5, ± 5%, 0-15 MHz (3-dB)
Accuracy (cal. settings)		≤ 3%		
Input voltage		max. 400 V (DC + AC peak)		
Input RC		DC-AC-GND		
Imput impedance		1 M ohm // 30 pF		
Output		–	channel I or channel II (according to set trigger source) approx. 90 mV/div.	approx. 50 mV/div.
Overscan		–	2 LED overscan indication	
Time basa				
Range positions(1,2,3 sequence)		18 positions	21 positions	23 positions
Ranges	cal.	0.5us/div...0.2 s/div.	0.1 us/div...0.5 s/div.	0.005 us/div...1 s/div.
	var.	1:≥ 2.5(≤ 0.2 us/div.)	≥ 2.5:1(2.5:1(≥ 1.25 s/div.)	≥ 2.5:1 (≥ 2.5 s/div.)
Magnifier		x5, ± 5% approx. 40 ns/div.	x10, ± 5% approx. 10 ns/div.	approx. 5 ns/div.
Accuracy (cal. settings)		≤ 3%		
Delayed time base (sweep delay)		–	7 stages, decadic, 100 ns-0.1 s cal., var. 10:1 (max. 1 s)	
Holdoff		–	variable x1 to x10	
Ramp output		–	O to epprox. 5 V, positive rising	
Trigger				
Trigger sources		INT: channel I, channel II, line/EXT.		
Internal trigger		AUTO or normal	AUTO to peak or normal pos./nég. slope, trigger level continuously adjustable	
Trigger RC		DC, AC, LF, HF filter		
Trigger bendwidth		0-40 MHz	0-50 MHz	0-≥ 80 MHz
Trigger bandwidth	int.	≤ 5 mm		
	ext.	0.6 V	0.3 V	0.05 V
Single sweep		–	yes	yes
Calibrator				
Weveform		squarewave	squarewave, rise time 5 ns	
Amplitude		0.2 V(± 1%)	selectable: 0.2 V and 2 V (± 1%)	
Frequency		approx. 1 kHz	selectable: approx. 1 kHz and approx. 1 MHz	
Component taster				
Test voltage		max. 8.5V rms (no-load)		
Test current		max. 24 mA rms (short-circuit)		
Test frequency		line frequency		
Potential		Test circuit grounded (line safe conductor)		
General				
Cless protection		Class protection I es per Germen electrical code VDE 0411 or IEC 348		
Power requirement		110V AC, 125 V AC, 220 V AC, 240 V AC 10% / 50...60Hz		
Power consumption		epprox. 36 VA	approx. 38 VA	approx. 40 VA
Size		285 mm x 145 mm x 380 mm (W x H x D)		
Weight		epprox. 7 kg.	approx. 7.5 kg	epprox. 8 kg

BBC GOERZ METRAWATT
DIGITAL FOLDING SCOPE MULTIMETERS

SPECIALS!

MODEL M-2050-01 REG. $1595.00 OUR PRICE **$1249.95**
Digital Folding Scope Without Hardcopy Output

MODEL M-2050-02
REG. $1995.00

OUR PRICE $1599.95
Digital Folding Scope
With Hardcopy Output

FEATURES
- Digital Multimeter
- Digital Oscilloscope
- Transient recorder

DESCRIPTION
The digital multimeter provides you 32 measurement ranges for voltage current and resistance. True RMS for both AC and AC/DC. Has 15 measurement ranges for voltages up to 650V, and 15 measurement ranges for currents up to 10 A and 2 resistance ranges. Overload protection in current and resistant measurement ranges up to 500V (except for 10 A input). The digital oscilloscope provides a flat screen with high-contrast graphic resolution due to 128 x 64 dot matrix. Compatible with both external or internal triggering and continuous adjustment of trigger level and selection of positive or negative signal slope for triggering. With 8 time deflections from 0.1 ms/DIV to 8 min/DIV optimum display is attainable for every input. 8 min/DIV time deflection provides 1 hour of total viewing time, permitting very slowing changing input to trigger on any disturbances in slow-motion display. The transient recorder provides long term memory up to 6 months even when instrument is off. To record the input 2 memories of each 0.5K x 8 bit are incorporated. Each memory content can be saved to prevent it from being accidentally overwritten. Two models to choose: Model M-2050-01 does not have hardcopy output. Model M-2050-02 has hardcopy output for hardcopy documentation of measurements. Battery operation: Four rechargeable NiCad batteries, C-size (not included). Power line operation with power supply adaptor. Dimensions: 257mm x 169mm x 88mm, instrument folded. Weight: 1.95 kg without batteries. Both models come complete with neck strap for handsfree operation, power supply adapter NA4-6/400, operation manual and test leads.

F-821 Carrying Case $79.00

BBC GOERZ METRAWATT
4¾ DIGIT SYSTEM & PORTABLE DMMS

NEW!

MODEL MA-5D REG. $595.00 OUR PRICE **$495.00**

FEATURES
- 38 Ranges
- True RMS Measurement

DESCRIPTION
Bench or portable digital multimeter operates from standard 110V AC or rechargeable batteries, 38 ranges for AC and DC voltage, current resistance, capacitance, and dB measurements. True RMS measurements to 20kHz. dB measurements on the range from -60 to +80 dB. Sturdy, high impact plastic case with carrying handle that provides a flexible tilt-stand and also serves as a carrying handle for transport. Safety test leads and sockets protect against accidental contact. Large 4½ digit LCD display with upper range limit of 29996 digits. Overload protected to 1000V AC/DC on voltage and dB ranges; to 250V AC/DC on all other ranges. Ranges include: DC Voltage; 300mV, 3V, 30V, 300V, 1000V; **AC Voltage:** 300mV, 3V, 30V, 300V, 1000V; **AC/DC Current:** 300uA, 3mA, 30mA, 300mA, 3000mA, 20A; **Resistance:** 3 kohm, 30 kohm, 300 kohm, 3000 kohm, 20 Mohm. Two input sockets for all ranges except 20A AC/DC range. Built-in battery charger. Complete with test leads, NiCad batteries, instruction manual and 2-year warranty. Dimensions: 10" x 3.3" x 8.4" Weight: 4 lbs. approx.

F-813 Carrying Case ..... $48.00 RW-5 19" Rack Mount Adapter . $134.00

M-2110-01 System DMM with IEEE-488 Interface $695.00
M-2110-02 System DMM with V-24/RS-232-C Interface 895.00
M-2110-03 System DMM with Centronics Interface 895.00

BBC GOERZ METRAWATT 3½ DIGIT FOLDING DMM

MODEL M-2030 REG. $219.00 OUR PRICE **$179.95**

MODEL M-2031
REG. $235.00

OUR PRICE $189.95

MODEL M-2032 True RMS
REG. $269.00

OUR PRICE $219.95

FEATURES
MODEL M-2030
- 25 Measurement ranges for ac and dc voltage and current, and resistance.
- Basic dc accuracy ±(0.1% of reading plus 1 digit)..
- 10A ac and dc current ranges (20A for 30 sec.).
- Input impedance 10M ohm.
- 2000-hour battery life.
- 3½ digit LCD display. ¾" high digits

MODEL M-2031
Same as M-2030 plus:
- Diode, audible continuity, and batteryself tests.
- 10 lo/hi power ohms ranges.
- 4 low power (0.5V max. open circuit voltage) and 6 high power (2.3V max. resistance ranges.

MODEL M-2032 Same as M-2031 plus:
- True RMS circuit is ac + dc coupled with 0.75% basic accuracy.

NEW!

DESCRIPTION
This popular folding multimeter series looks like a handheld model yet can be used like a bench model. Folding multimeters offer unique features such as optimal adjustability of display angle, oversize display, hands-free operation with standard neck strap, automatic battery turnoff and self protection against physical damage when folded. Click-stop mechanism holds meter display at selected angle. Single function/range selector switch simplifiers measurements. Ranges include: **DC Voltage:** 200mV, 2V, 20V, 200V, 650V; **AC Voltage:** 200mV, 2V, 20V, 200V, 650V; **AC/DC Current:** 2mA, 20mA, 200mA, 2A, 10A; **Resistance:** 2 kohms, 20 kohms, 200 kohms, 2 Mohms, 20 Mohns. Three models available: **Model M-2030** features 0.1% VDC accuracy, 25 ranges for AC and DC voltage, current and resistance measurements, 10A AC/DC ranges; **Model M-2031** features 0.1% VDC accuracy, 31 ranges for AC and DC voltage, current and resistance measurements. Diode test and audio feature. Hi-Lo resistance measurements; **Model M-2032** features 0.1% VDC accuracy, 31 ranges for AC and DC voltage, current and resistance measurements. True RMS, diode test and audio feature. Hi-Lo resistance measurements. All meters have 2,000-hr. battery life and come complete with test leads, battery instruction manual and 2-year warranty. Dimensions: 5.9" x 4.8" x 1.8"

BBC GOERZ METRAWATT
3½ DIGIT HANDHELD DMM

NEW!

MODEL M-2011

REG. $134.00

OUR PRICE $109.95

MODEL M-2012
REG. $149.00

OUR PRICE $129.95

FEATURES
MODEL M-2011
- 23 Measurement ranges for ac and dc volts, ac and dc current and ohms.
- Basic dc accuracy: ±(0.5% of reading + 1 digit).
- 15 Hz to 4 kHz frequency response. Full RF shielding.
- Extra large LCD readout. ½ inch.
- 10M ohm input impedance.
- All measurement ranges overload protected with "melting" fuse.
- 2000-hour operating life with common 9V alakline battery.

MODEL M-2012
- All the capabilities of the M-2011 plus:
- Current ranges to 10A ac/dc, 20A for 30 seconds.
- Basic dc accuracy ± (0.25% of reading + 1 digit).

DESCRIPTION
Large 3½ digit LCD display with automatic polarity indication. Overload protection up to 250V AC/DC on all ranges. Automatic zero balancing. Battery self-testing feature. Single dial selector switch. Ranges include: **DC Voltage:** 200mV, 2V, 20V, 200V, 650V; **AC Voltage:** 200mV, 2V, 20V, 200V, 650V; **AC/DC Current:** 2mA, 20mA, 200mA, 2A; **Resistance:** 2 kohm, 20 kohm, 200 kohm, 2 Mohm, 20 Mohm. Two models available: **M-2011** features 23 ranges for AC and DC voltage and current, and resistance measurement, 0.5% VDC accuracy, only 2 input sockets for all ranges. **M-2012** features 25 ranges for AC and DC voltage and current and resistance measurements, 0.25% VDC accuracy, 10A AC/DC ranges. Comes complete with test leads, battery, instruction manual, and 2-year warranty.
Dimensions: 3.7" x 6.2" x 1"

F-814 Carrying Case ..... $ 8.00
GE-188 Protective Rubber Boot 13.50

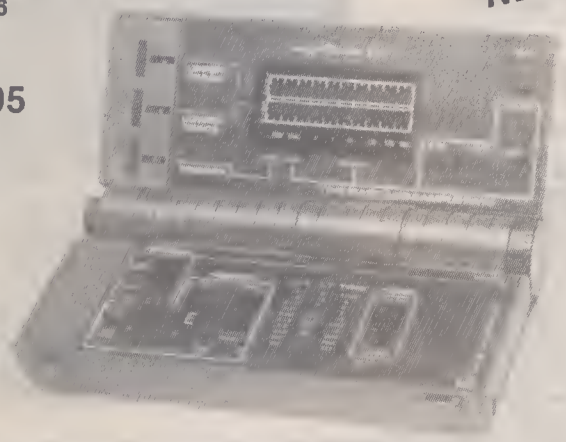
POCKET TECHNOLOGY INC. LOGICSCOPE™ 136

Here's The Savvy-est True Dual Trace
10 MHz Digital Storage Scope You Ever Saw

NEW!

MODEL 136

OUR PRICE
$549.95



FEATURE
- Easy To Use. • True Dual Trace. • 10 MHz Real Time Bandwidth. • 3 Input Channels.
- I/O Port Digital Waveform Storage. • Boolean Waveform Operations.
- Audio Functions. • 9-Volt Battery (not included)/AC Operation.

DESCRIPTION
The LogicScope 136 combines many of the features and capabilities of sophisticated logic analyzers and oscilloscopes. It fits in your hand. The pocket-size LogicScope 136 is made possible by a patented breakthrough in display technology. The conventional CRT has been replaced by a unique array of 400 LED's that permits simultaneous display of two digital waveforms. The LogicScope is the ideal instrument, for designing, troubleshooting or repairing digital systems and it's made in the U.S.A.
The 136 can be used for viewing single shot events, or repetitive waveforms. It can be operated in real time mode, or in memory mode which permits acquisition and storage of up to 50-100 bit waveforms. These can be recalled, logically compared (AND, OR, EXCLUSIVE OR) to other input waveforms, or output to an external device via an I/O port. This I/O port will also accept future add-on 136 Modules.
Engineering and Field Service Applications
On microprocessor-based systems, check the timing relationship of various parameters relative to the system clock and other key events. Its storage capability allows visual and logical comparison of non-repetitive waveforms to known reference signals. Output in the start-up of the digital device can be compared to reference signals to determine the operating state of the device. Questionable waveforms can be stored for analysis. Its lightweight and small size make the LogicScope convenient to take on every service call. The 136 provides much more information for trouble shooting a digital system or peripheral than a logic probe or digital counter without having to lug an oscilloscope or logic analyzer along.

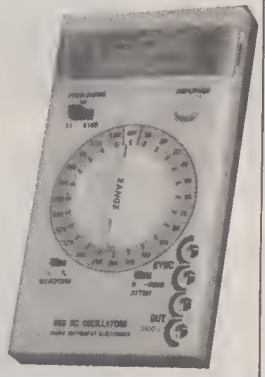
SPECIFICATIONS
DISPLAY: Dual LED Arrays 2 X 100 **Elements per Array 16 LED Annunciators:** Time Base, Memory, Tone, Single Sweep, Battery Low. **Logic Compare Modes:** AND, OR, EXCLUSIVE OR. **Display Options:** A, B, Trigger, Memory, Invert, Clock, SYC, External, Logic Functions. **INPUT: Three Channels (A, B, Trigger)** 0-5 Volt: 1 Meg, 50 PF. 0-50 Volt: 1 Meg, 70 PF (10 X Probe), 50 Volts Maximum, Probes or Direct Via IOC Connector. **TIME BASE:** 10 MHz Real-Time Bandwidth, 50—100 NS Glitch Catcher, 1uS-1Sec/Div Ranges (6 steps) Auto-Seek Mode, Single Sweep/Reset, UNCAL Function. **TRIGGER: Threshold Adjust:** 1.2 4.7 Volts, Trigger Tone, Dual Tone AUDO TRAK (2.44 KHz, 4.88 KHz), 100 NS Auto Restore. **MEMORY:** 50-100 Bit CMOS Display Waveform Memories, Write/Recall Functions, Store Mode, Memory Mode, Memory Link Mode. **POWER:** AC Wall Transformer/ Charger, 9-Volt Rechargeable Battery (optional). **DIMENSIONS:** 6.0"L x 4.5"D x 1.75" H. **WEIGHT:** 1 lb. 4 oz. **OTHER:** 25 Pin Input/Output/Control Port, 7 LED Keyboard Annunciators. **STANDARD ACCESSORIES:** Triple BNC Adaptor, AC Combination Wall Transformer/Charger, Neck Strap, Operations Manual.

Optional Modular Triple Probe Set **Model 1361** **$165.00**

SCOPE POCKET SIZED AUDIO SIGNAL GENERATOR

MODEL RC-555

OUR PRICE $69.95 **NEW!**



DESCRIPTION
The RC-555 is completely portable, low distortion sine-wave signal, 46 step of selected frequency for use by technician, servicemen, students, and hobbyists who require an instrument that is accurate, reliable, and always ready for use. It is powered by a standard 9V transistor radio type battery, providing 50 operating hours, depending upon the type of battery and usage. It has rugged structure design, good feeling held in operator's hand for convenient use.

SPECIFICATIONS
GENERAL: Frequency Range: x 1 range 20 Hz to 1.5 kHz, x 100 range 2 kHz to 150 kHz with 23 step of selected frequency both. **Output Control:** 0 dB, -20 dB, and fine adjuster. **Output Impedence:** 600 ohm ± 10%. **Waveform:** Sine wave, Square wave. **SINE WAVE CHARACTERISTS: Output Voltage:** 1.2V rms maximum (no load). **Output Flatness:** 20 Hz to 150 kHz ± 0.5 dB (reference frequency 1 kHz). **Distortion:** 200 Hz to 15 kHz 0.05% (THD) or less, 50 Hz to 30 kHz 0.1% (THD) or less, 20 Hz to 100 kHz 0.5% (THD) or less. **Frequency Accuracy:** 20 Hz to 100 kHz (± 3% or less), 100 kHz to 150 kHz (± 5% or less). **Output Impedence:** 1 k ohm ± 5%. **SQUARE WAVE CHARACTERISTICS: Output Voltage:** 6 Vp-p maximum (when on load). **Rise & Fall Time:** less than 0.5µs. **Sag:** less than 5% at 20 Hz. **Over Shoot:** less than 2% at maximum output. **Duty Ratio:** 50% ± 5%. **Frequency Accuracy:** 20 Hz to 100 kHz (± 5% or less), 100 kHz to 150 kHz (± 7% or less). **GENERAL INFORMATION:** Operating Temperature: 0°C to +50°C, specification apply from 10°C to 30°C. **Storage Temperature:** -20°C to +60°C, battery removed. **Power Requirements: 9V battery, NEDA 1604. Battery Life:** Up to 50 hours typical with Alkaline. Up to 30 hours with typical Zinc carbon. **Battery Indicator:** LED lamp indicates when approximately 20% of battery life remains. **Dimensions:** 6"L x 3.3"W x 0.9"H, (15cm L x 6.2cm W x 2.1cm H) approx. **Weight: 7 oz. (200 grams) including battery. Accessories supplied:** User's manual, test leads, 9V zinc-carbon battery.

A.W. SPERRY 20 MHz DUAL TRACE OSCILLOSCOPE

MODEL 620C **OUR PRICE $399.95** ***SPECIAL!***

NEW!

FEATURES
- Built-In Component Checker. • Internal Graticule CRT. • TV Video Sync Filter. • Z-Axis Input.
- High Sensitivity X-Y mode. • Low Power Consumption. • Front Panel Trace Rotator.

DESCRIPTION
The A.W. Sperry 620C is a dual trace (two channel) 20 MHz oscilloscope featuring a built in component checker. The component checker emits a 60 Hz sine wave, voltage and current limited, and allows the resultant voltage and current to be displayed on the CRT. The voltage and current can be displayed in either a time mode or X-Y mode. In the X-Y mode, the voltage (X) and current (Y) of the component under test result in a VI plot on the CRT. The user can quickly view VI characteristics of individual components as well as combinations of components to quickly and efficiently detect and isolate defective components. This valuable feature saves hours of troubleshooting time.

SPECIFICATIONS:
Vertical System CH. A and CH. B · Deflection Factor, 5mV/div-20v/div (± 3%) 12 steps. **Frequency response,** DC-20MHz (−3dB). **Risetime,** 17ns or less. **Maximum input voltage,** 300V (DC + AC peak). **Input impedence,** 1m ohm ± 5% 20 pF ± 3pF. **Invert,** CH.-B only. **Operating modes,** CH.-A, CH.-B, Dual, ADD, X-Y. **Internal Horizontal System (Sweep Operation) · Time base,** 0.2us/div-0.5s/div (± 3%) 20 steps. **Magnification,** 5X. **Trigger System Sources,** INT, CH.B LINE. EXT. **Modes,** Norm, Auto. **Coupling,** AC, HF rej, TV. **Slope,** + or −. **Sensitivity,** INT. 1 div or better, EXT. 1V p-p or better. **Z Axis Modulation Internal Calibrator · Output,** 0.5V p-p (± 5%), 1KHz (± 5%) square wave. **CRT Display · Phosper,** P31. **Graticule,** Internal 6x10 div (1 div = 10mm). **Accelerating Potential,** 2KV **Component Tester · Open Circuit Voltage,** 9Vrms. **Short Circuit Current,** 0.6-Arms **Power Requirements ·Voltage,** 120Vrms 50/60HZ. **Physical-Size,** 162H x 294W x 352D mm. **Weight,** 7Kg approx. (15.4 lbs.). **Environment Operating Temperature,** 0° to 40°C (32° to 104°F). **Packaging-** comes with AC linecord model PC-1, Two test probes models TP-60, 2-year warranty, operating instructions.

SCOPE 4-1/2 DIGIT, BENCH DIGITAL MULTIMETER

MODEL DVM-6005

REG. $249.95 OUR PRICE $199.95 **NEW!**

FEATURES
- 4-1/2 Digit LCD, 0.4" high characters.
- Conversion Period: 500 milliseconds.
- Polarity: Automatic, (-) negative polarity.
- Overload Indication: Highest digit of (1) or (-1) is displayed.
- Power supply: Six 1.5V D size batteries
- "LO BAT" Indicator.
- Environment: 0 to 50°C operating, -20 to +60°C storage, 80% RH max.
- Dimensions: 8.4"W x 10.4"D x 3.9"H (214 x 265 x 100mm).
- Weight: 67 oz. (1900 grams) including batteries.
- Accessories supplied: Test lead set, operator's manual, batteries, spare fuse.

SPECIFICATIONS
DC VOLTAGE: Ranges: ± 200MV, ± 2V, ± 20V, ± 200 V, ± 1000V. **Resolution:** 0.5%uV on lowest range, a1V on 100V range. **Accuracy:** ± (0.05% of reading + 2 digits) on all ranges. **Response Time:** less than 1 second. **Input Impedance:** 10Mohm on all ranges, except 11Mohm on 2V range. **Normal Mode Noise Rejection:** greater than equal to 90 dB at DC, 50Hz and 60Hz with 1Kohm unbalance. **Overload Protection:** 1000V DC or peak AC, continuous. **AC VOLTAGE (Average Sensing, RMS Calibrated Sinewave):** Accuracy: ± (% of reading + no. of digits) 50 Hz to 10 KHz, 0.5% +10, 10KHz to 20KHz, 0.1% +10, 50KHz 5% +30. **Response Time:** less than equal to 3 seconds. **Input Impedance:** 10M ohm in parallel with less than 100 pF, except 11M ohm or 2 V range. **Common Mode Noise Rejection: greater than 60 dB at 50 Hz and 60 Hz with 1K ohm unbalance. Overload Protection:** 1000V DC or rms AC, continuous, not to exceed the voltherz product of 10^7, except 200 mV AC range (10 seconds maximum above 250 Vrms). **Volt-Hz Product:** 10^7 max. (200V max. 50 KHz). **DC CURRENT: Ranges:** ± 200uA, ± 2mA, ± 20mA, ± 200mA, ± 2000mA, ± 10A. **Resolution:** 10nA on lowest range, 1mA on 10 A range. **Accuracy:** ± (0.5% of reading + 10 digits) on all ranges, except ± (0.75% of reading + 10 digits) on 200 mA, ± 2% of reading + 10 digits) on 2000mA, 10 A ranges. **Response Time:** less than equal to 1 second. **Burden Voltage:** 0.7V max. on 2A, 10A ranges, 0.3V max. on all other ranges. **Overload Protection:** 2A/250V fuse protected, 10A range not fused, 10A max. **AC CURRENT: Ranges:** 200uA, 2mA, 20mA, 200mA, 2000mA, 10A. **Resolution:** 10nA on lowest range, 1mA on 10A range. **Accuracy:** ± (0.75% of reading + 10 digits), 50Hz—50Hz, 200uA through 200mA ranges, (± 2% of reading + 10 digits), 50Hz—5KHz, 2000mA, 10 A ranges. **Response Time:** less than equal to 3 seconds. **Burden Voltage:** 0.7V max. on 2A, 10A ranges, 0.3V max. on all other ranges. **Overload Protection:** 2A/250V fuse protected, 10A range not fused, 10A max. **RESISTANCE: Ranges:** 200ohm, 2Kohm, 20Kohm, 200Kohm, 2000Kohm, 20Mohm. **Accuracy:** ± (0.2% of reading + 20 digits) on 200ohm range. ± (0.15% of reading ± 2 digits) on 2Kohm through 200Kohm ranges. ± (0.2% of reading + 2 digits) on 2000Kohm range. ± (2% of reading + 2 digits) on 20Mohm range. **Response Time:** 10 seconds maximum on 20Mohm range, 2 seconds maximum on all other ranges, to rated accuracy. **Open Circuit Voltage:** less than 3.5V on all ranges. **Overload Protection:** 250V DC or rms AC on all ranges.

SCOPE 3-1/2 DIGIT LCD MINI METER WITH MAXI SPEC'S

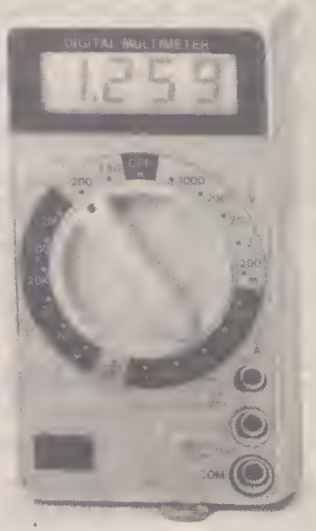
MODEL DVM-630

OUR PRICE **$29.95**

SPECIAL!

NEW!

THE MINI METER WITH MAXI SPEC'S



FEATURES

- 0.05% accuracy.
- DC Voltage.
- AC Voltage.
- DC Current.
- Resistance.
- Diode Test.
- Battery Test.
- Battery Life 300 hours.
- Test Leads Included.

SPECIFICATIONS

Display: 3-1/2 Digit LCD with a maximum reading of 1999. **Polarity:** Automatic, (-) negative polarity. **Over range indication:** Highest digit of (1) or (-1) is displayed. **Measuring rate:** 3 Measurements per second, nominal. **Zero adjustment:** Automatic. **Low Battery Indication:** The (LO BAT) is displayed when the battery voltage drops below the operating voltage. **Storage temperature:** -20°C to +60°C, 0-60% RH with battery removed. **Operating temperature:** 0°C to +50°C, 0-70% RH. **Power:** Single, standard 9-volt battery (NEDA 1604, JIS 0069, IEC 6F22). **Battery Life:** High-power alkaline 300 hours. Ordinary zinc-carbon 150 hours. **Dimensions:** L:126mm x W:70mm x H:24mm.

Model CC-30 Deluxe zippered carrying case.....$4.50

DC VOLTAGE

Range	Resolution	Accuracy 1 Year 18° to 28°C
200mV	0.1mV	±0.5% of rdg ± 2d
2V	1mV	±0.5% of rdg ± 2d
20V	10mV	±0.5% of rdg ± 2d
200V	100mV	±0.5% of rdg ± 2d
1000V	1V	±0.5% of rdg ± 2d

RESISTANCE

Range	Resolution	Accuracy
200 ohm	0.1 ohm	±0.75% of rdg ±2d
2Kohm	1 ohm	±0.75% of rdg ±2d
20Kohm	10 ohm	±0.75% of rdg ±2d
200Kohm	100 ohm	±0.75% of rdg ±2d
2Mohm	1K ohm	±1% of rdg ±2d

BATTERY TEST

Range	Resolution	Approximate Load Current
1.5V	0.001V	1.5mA DC at 1.5V DC

DC CURRENT

Range	Resolution	Accuracy	Max. Full Scale Voltage Drop
200uA	0.1uA	±0.75% of rdg ±2d	0.25V
2mA	1uA	±0.75% of rdg ±2d	0.25V
20mA	10uA	±0.75% of rdg ±2d	0.25V
200mA	100uA	±0.75% of rdg ±2d	0.25V
2A	1mA	±1.2% of rdg ±2d	0.25V

AC VOLTAGE

Range	Resolution	Accuracy	Frequency Range
200V	100mV	±1.2% of rdg ± 5d	45 Hz - 450 Hz
750V	1mV	±1.2% of rdg ± 5d	45 Hz - 450 Hz

DIODE

Range	Resolution	Accuracy	Max. Test Current	Max. Open Circuit Voltage
	1mV	±(2.0% rdg + 5 dgt)	1.5mA	3.2V

HITACHI DIGITAL MULTIMETERS

MODEL VR-3510

OUR PRICE **$99.95**

MODEL VR-3525

OUR PRICE **$69.95**

MODEL VR-3550

OUR PRICE **$49.95**

SPECIAL!

DESCRIPTION

Hitachi's three new DMM's feature up to eight measurement functions easily selectable by feather-touch keys, autoranging, date hold, continuity beaper, and temperature measurement functions.

FEATURES

- VR-3510 Accuracy: ±0.1%.
- VR-3525 Accuracy: ±0.25%.
- VR-3550 Accuracy: ±0.5%.
- Up to eight measurement functions (VR-3510/3525).
- The use of a custom IC chip makes these DMM's extremely easy-to-operate, and provides automatic and manual ranging.
- Power-saving IC's and LCD display yield long continuous operation.
- High legibility LCD display and function indicators provide error-free measurements.
- Complete overload protection for fail-safe operation.
- Date hold function.
- Smart functional design.
- Built-in stand for work bench use.
- 10 amp input.

COMMON SPECIFICATIONS

DC Voltage Range: 200mV, 2000mV, 20V, 200V, 1000V. **AC Voltage Range:** 2000mV, 20V, 200V, 750V. **Resistance Range:** 200 ohm, 2000 ohm, 20 Kohm, 200 Kohm, 2000 Kohm, 20 Mohm. **DC Current:** 200 uA, 2000 uA, 20 mA, 200 mA, 10A. **AC Current Range:** 200 uA, 2000 uA, 20 mA, 200 mA, 10 A. **Diode Test Range:** 0—1000 mV. **Continuity Check Range:** 0—200 ohm. **Temperature Range:** —20°C— +700°C. (Differs depending upon the temperature measurement range of the probe used). **Measurement Method:** Integration type. **Display:** 3-1/2 digit liquid crystal display, maximum display of 1999, with units and sign. **Range selection:** Autoranging (except for current ranges) and manual range selection. **Overrange indicator:** Only the highest digit show '1'. **Polarity switching:** Automatic (minus sign only). **Battery indicator:** 'B' indicated when the battery voltage falls below 1.3V ±0.075V. **Sampling rate:** Two times per second. **Operating temperature:** 0 to +50°C. **Guaranteed accuracy:** +18 to +28°C. **Humidity:** 80% RH or less (0 to 35°C). 70% RH or less (0 to 50°C) no condensation. **Power supply:** 1.5V x 2 (Two AA batteries). **Dimensions (W x H x D):** 86 x 32 x 174mm. 3.4 x 1.3 x 6.9 inches. **Weight:** Approx. 270 g. (9.5 oz.) (not including batteries).

TEST INSTRUMENTS

FLUKE DIGITAL MULTIMETERS & VOLTMETERS

MODELS - 73, 75, and 77-F.

FEATURES

- 3½ digits (3200 counts). • Analog bar graph display. • Single rotary switch, fast autoranging.
- Compact, rugged, soil-resistant case. • 2000 hour battery life, single 9V battery.
- "Sleep Mode" if battery not switched off. • 3-year warranty, 1-year calibration cycle. • UL 1244 listed, VDE listed.
- Dimensions: (LWH) 6.55"x 2.95"x 1.12". Weight: .63 lbs.
- Accessories supplied: TL-70 test leads, manual, battery, spare fuse (installed). C-70 holster for Fluke 77 only.

DESCRIPTIONS

These three microprocessor-based handheld multimeters are a distinctive new family. They represent the latest in what high technology can do to reduce cost — without compromising quality or capability, And they have features never before found in other DMMs, even the most expensive models. A proprietary A-to-D converter chip designed and built in Fluke microcircuit laboratories, and proprietary software developed by Fluke engineers make it possible. Operating any of the 70-Series Multimeters is exceptionally simple: choose the function you want, connect the test leads, and the meter automatically selects the best range. The display reminds you what is being measured, AC or DC, volts, amps, ohms, etc. But the most unique part of the display is a linear 32-segment LCD scale that corresponds to the full scale of an analog meter and the 3200-count numerical readout. The length of the scale, like the length of a bar graph, is proportional to the value being represented. The bar graph is updated ten times faster than the numerical display and allows you to follow changes faster than you can read numbers—the same as with a conventional analog meter. So it excels at making critical "peaking" or "dipping" circuit adjustments.

75 77

MODEL 73

FEATURES OUR PRICE **$74.95**

- All the distinctive features mentioned above. • Resistance. • AC Current (Average-Sensing, RMS-Indicating).
- AC Voltage (Average-Sensing, RMS-Indicating).
- DC Current. • DC Voltage. • Six functions including diode test. • 0.7% basic dc accuracy. • Current range to 10A, DC or AC.

DESCRIPTION

The Fluke 73 is the least expensive handheld multimeter, and has all the distinctive features described above.

MODEL 75

FEATURES OUR PRICE **$89.95**

- All the features of Fluke 73 plus: • Seven functions including diode and continuity beeper.
- Three current ranges: 10A, 320 mA, 32 mA. • 0.5% basic DC accuracy. • Range-hold for manual ranging, autoranging.

DESCRIPTION

The Fluke 75 Multimeter has three DC and AC current ranges, five DC voltage ranges, four AC voltage ranges, six resistance ranges, and an audible tone for fast diode or continuity testing. It also has a pushbutton for range hold and manual ranging. Repetitive go, no-go checks are accomplished faster using just one range. So are many peaking and dipping checks using the 32-segment analog scale. Touching the pushbutton once prevents the meter from changing ranges. Pushing the button momentarily a second time advances the range. Holding the pushbutton down for a couple of seconds restores autoranging. A continuous audible tone provides a fast check on the continuity of current paths of about 150 ohms or less. A brief tone indicates a voltage-drop of about 0.6 volts, the normal voltage for a forward biased semiconductor junction passing about 500 uA.

MODEL 77-F OUR PRICE **$119.95**

FEATURES

- All the features of the Fluke 75 plus: • "Touch-Hold" function (patent pending). • 0.3% basic DC accuracy. • Multipurpose protective "holster" included.

DESCRIPTION

The Model 77-F Multimeter, besides having all of the features of the Model 75, has better accuracy and a unique means of holding a reading after a test lead has been removed from a circuit or test point. As soon as the contact and the source is stable, the meter makes a distinctive audible chirp and holds the reading. The user can then remove the test leads and check the reading. Full attention may be devoted to touching the right test point and nothing else. Touch-Hold reduces the chance of circuit damage when a probe tip slips and contacts two points at one time; reduces risk of electrical shock. Also, Touch-Hold gives the user time to log the reading if needed or refer back to the reading before the next test. The multipurpose holster is made of a tough semiflexible plastic that snaps over the DMM. Both test probes may be snapped into the holster to keep meter and leads from getting separated. And one probe may be snapped into the holster in a position so just one hand may hold both the meter and probe tip in contact with a test point. You can hang the multimeter on your belt, tilt it back on a ball for bench use, or use the neck strap and belt clip for easy viewing while probing.

OPTIONAL ACCESSORIES: C-70 Holster for models 73 and 75 only. . .$9.00 C-71 Soft carrying case. . .9.00 TL-70 Extra test leads. . .5.00

FLUKE 20 SERIES HANDHELD DIGITAL MULTIMETERS

NEW!

MODEL 21 OUR PRICE **$89.95**

MODEL 23 OUR PRICE **$129.95**

MODEL 25 OUR PRICE **$209.95**

MODEL 27 OUR PRICE **$229.95**

DESCRIPTION

The Fluke 20 Series are high-energy-protected multimeters capable of accurately tackling the toughest measurement problems of today's high-technology industries. Each meter includes battery, spare fuse, TL-70 test leads, two insulated alligator clips, and operator's manual.

SPECIFICATIONS

Display: 3200 counts plus polarity indication. **Analog:** 31 segment bar graph plus polarity indication. **MIN/MAX recording and Relative Mode:** Fluke 27 only.

21 23 25 27

DC VOLTAGE:

Range	Resolution	Accuracy 21	Accuracy 23	Accuracy 25 & 27
320.0 mV 3.200V 32.00V 320.0V	100 uV 1 mV 10 mV 100 mV	0.5% + 1	0.3% + 1	0.1% + 1
1000V	1V	0.6% +	0.4% + 1	

Input Impedance: 10 Mohm nominal.
Overload Protection: 25 & 27: 1000V; 500V on 320mV range.
21 & 23: 1000V dc, 750V ac, 500V on 320 mV range.

DC & AC CURRENT

Range	Resolution 21 & 23	Resolution 25 & 27	Nominal Burden Voltage 21 & 23	Nominal Burden Voltage 25 & 27
320.0 uA	—	0.1uA	—	0.5 mV/uA
3200 uA	—	1 uA	—	0.5 mV/uA
32.00 mA	10 uA	10 uA	6 mV/mA	6 mV/mA
320.0 mA	100 uA	100 uA	6 mV/mA	6 mV/mA
10.00A	10 mA*	10 mA	50 mV/A*	50 mV/A

*Fluke 23.

DC Accuracy: 25 & 27: within 0.75% + 2. **21 & 23:** within 1.5% + 2. 2% + 2 on 320 mA range. **AC Accuracy: 25 & 27:** within 1.5% + 2. **21 & 23:** within 3% + 2. **Overload Protection: 10A range:** 20A 600V fuse, 100,000A interrupt rating. **mA range (also uA ranges in Fluke 25 & 27):** 630 mA 250V fuse, 1500A interrupt rating: in series with a 3A 600V fuse, 10,000A interrupt rating (Fluke 23 uses 0.36ohms fusible resistor instead of 3A 600V fuse).

OHMS

Range	Resolution 21 & 23	Resolution 25 & 27	Accuracy 21	Accuracy 23	Accuracy 25 & 27
320.0	0.1 ohm	0.1 ohm	0.7% + 2	0.5% + 2	0.3% + 2
3.200K 32.00K 320.0K 3.200M	1 ohm 10 ohms 100 ohms 1 kohm	1 ohm 10 ohms 100 ohms 1 kohm	0.7% + 1	0.5% + 1	0.2% + 1
32.00M	10 kohm	10 kohm	2.5% + 1	2% + 1	1% + 1
32.00 nS	—	0.01 nS	—	—	2% + 10

Overload Protection: 500V rms. **Test Voltage:** greater than 420 mV dc full scale up to 3.2 Mohm; greater than 1.3V up to 32 Mohm, greater than 2.6V open circuit. **DIODE TEST & CONTINUITY: Diode Test Indication:** Displays voltage drop; 0.5mA nominal test current at 0.6V; 2.0V full scale. Momentary tone for test voltage dropping below. 0.7V (typical silicon diode threshold). **Continuity Indication:** Continuous audible tone for test resistance below approx. 150 ohm. **Open Circuit Test Voltage:** greater than 3.3V. **Overload Protection:** 500 rms.

AC VOLTAGE

Range	Resolution	Accuracy 25 & 27: 40Hz-2KHz	Accuracy 25 & 27: 2KHz-10KHz	Accuracy 25 & 27: 10KHz-30KHz
3.200V 32.00V 320.00V	1 mV 10 mV 100 mV	0.5% + 3	2% + 3	4% + 10
1000V	1 V	1% + 3	3% + 3	Not spec.

AC VOLTAGE

Range	Resolution	Accuracy 21 & 23 45-1000Hz*
320.0mV	100 uV	—
3.200V 32.00V 320.00V	1 mV 10 mV 100mV	2% + 2
1000V**	1 V	2% + 2

*500 Hz on 3.2V range **750V on Fluke 21 or 23

Conversion Type: AC coupled, average sensing, calibrated to read the rms value of a sinewave. **Input Impedance: 25 & 27:** 10 Mohm nominal, greater than 100 pF. **21 & 23:** 10 Mohm nominal, greater than 50 pF. **Overload Protection:** 10, Volt-Hertz maximum. **25 & 27:** 1000V, 500V on 320 mV range. **21 & 23:** 1000V dc, 750V ac. **GENERAL Maximum voltage to be applied to any terminal:** 1000V with respect to earth ground. **Battery:** 9V NEDA 1604, Symbol when 60 hours remain. **25 & 27:** Typically 1,300 hours with alkaline. **21 & 23:** Typically 2,000 hours with alkaline. **Instrument Size: 25 & 27:** 2.2"H x 3.75"W x 6"L. **21 & 23:** 1.12"H x 2.95"W x 6.55"L. **Weight: 25 & 27:** 1.6 lbs. **21 & 23:** .75 lbs. **Warranty: 25 & 27:** Two years parts and labor. **21 & 23:** Three years parts and labor.

Carrying Cases

C-20 Hard Case for 25 & 27 . . . . . $20.00
C-25 Ruggedized Soft Case for 23, 25, & 27 . . . . . 15.00
C-70 Holster for 21, included with 23 . . . . . 9.00
C-71 Compact Soft Case for 21 & 23 . . . . . 9.00

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

FLUKE HANDHELD DIGITAL MULTIMETER

MODEL 8020B REG. $199.00 OUR PRICE $179.95

Your John Fluke Modal 8020B is a pocket-size digitel multimetar that is idaally suitad for application in the fiald, ieb, shop or homa.

FEATURES

- DC Accuracy 0.1%. • Powar: Single 9V battery, NEDA 1804 (supplied).
- All VOM functions plus conductanca and continuity (8 in ell) are includad as atandard. **DC Voltege**—100 uV to 1000V, AC Voltaga · 100uV to 750V. **DC Current**—1 uA to 2000 mA, AC Currant · 1 uA to 2000 mA. **Resistance**—0.1 ohm · 20 M ohm. **Diode Test. Conductence**—0.1 ns to 200 ns end .001 ms to 2 ms (S = siemens = 1/ohm). **Continuity**—Providas en immediata audibla indication when continuity is datectad.
- Conductance · A new multimater function that eilows fest, accurate, noise fraa rasistenca measuraments up to 10,000 M ohm.
- A high contrast 3 1/2 digit liquid cryetal display that can ba eeslly raed from across the room. No mora worrias ebout bant needias, perallax, atc.
- Eech renge has: Full euto-polarity oparation, Overranga indication. Extansiva ovarloed protaction with 600V doubla-fused currant input.
- Dual slope integration measuramant tachniqua to ensura noisa-frea maasuremants.
- Long term celibration stability · 2 years. Easy calibretion ·faw edjustments.
- Lightweight · 369 grams (13 ouncas). • Dimensions: (LWH) 7.1"x 3.4"x 1.8".
- Up to 200 hours of continuous oparetion can be axpacted from a singla, inexpansiva, 9V alkelina battary (transistor radio/calculetor typa).
- Low battary voltaga automatically datactad and displayad.
- Lina operation is possibla using a Model A81 Battary Eliminator. (Saa accessories at bottom of page)
- Protectad test leads · finger guards on tha probes and shroudad contacts on the connectors discourage accidantel contact with circuit voltagas.
- Accessories supplied: Manual, tast leads (Y-8132), 9V battary, spera 2A fusa, operetor's card, statement of calibration. Saa facing paga for optional accassorias.

FLUKE HANDHELD DIGITAL MULTIMETER

MODEL 8022B REG. $154.00 OUR PRICE $139.95

Your John Fluka Modal 8022B is e pockat-siza digital multimatar thet is idaally suitad for application in tha fiald, iab, shop or homa. Your 8022B offers eil standard VOM maasuremant functions: AC and DC volts, Altarnating and Diract Current, and Rasistanca.

FEATURES

- DC accuracy 0.25%. • Single 9V bettery, NEDA 1604 (supplied).
- A high contrast 3 1/2 digit liquid crystel display, thet can ba easily raed from across tha room. No mora worries about bent naadlee, parallax, etc.
- Each ranga has: Full auto-polarity operation, Ovarrange indicetion, Effective protection trom ovarloads and translants.
- Dual slopa intagration measuremant tachniqua to ansura fest, accurata, noisa-fraa measuramants.
- Long term celibretion stability · 2 yaers. Easy celibration ·faw adjustmants.
- Lightwaight · 369 grams (13 ounces). • Dimansions: (LWH) 7.1"x 3.4"x 1.8".
- Up to 200 hours of continuous oparation can be axpacted from e singla, inaxpansive, 9V, alkaline battary (transistor radio/celculator type).
- Low battery voltaga autometicelly datacted and display.
- Line operation is possible using a Modal A81 Battary Eliminator. (Sae accessories et bottom of paga)
- Protacted tast leads - otfer less changa ot meesurad signal axpoeura at tha DMM input tarminels than stendard benana tast lead tips.
- Accassorias supplied: Manual, operetor's card, test iaads (Y-8132), 9V bettary, spera fusa, statamant of calibration. Saa fecing pege for optional accassorias.

HANDHELD DMM

MODEL 8021B REG. $159.95 OUR PRICE $149.95

All of the features of the 8022B with tha high-apaad continuity baaper.

FLUKE HANDHELD DIGITAL MULTIMETER

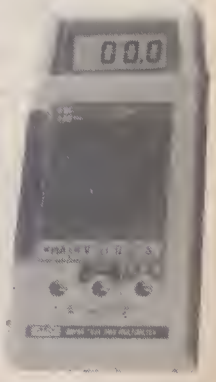
MODEL 8024B REG. $249.00 OUR PRICE $225.00

Your John Fluke Model 8024B is a pocket-siza digitel multimetar thet le idaally suitad for applicetion in tha fiald, iab, shop or homa.

FEATURES

- FUNCTIONS: All stendard VOM meesuremant functions ·AC/DC voltaga, AC/DC current, rasistenca — plus:
  Conductanca: A new multimater function thet allows fest, accurata, noise-frea resistanca meesurements up to 10,000 M ohm.
  Temparatura: Used with a K-typa thermocoupla, this function providas diract displey in dagraas Caisius for K-typa tharmocouplas.
  Paak-Hold: Providas short-term mamory tor cepturing tha paak valua of transiant AC or DC signais such as motor starting currant.
  Continuity: Providas en immedieta visual and eudibla indication when continuity is detactad (usa for pessiva circuit tasting).
  Lavai Detector: Senses logic levais end othar activa signeis laas than 250 V DC or AC rms. Visuel and audibla indications of tha rasults ara provided.
- DC accuracy 0.1%.
- Range for aach function has: Full autopolarity, Ovarranga indication, Effactiva protaction from overloads, Dual scopa intagration maasuramant tachnique to ensure noise-free measuramants.
- Operation Convenianca: 3 1/2 digit liquid crystel display: A high contrast display that can be aasily read from ecross tha room. No mora worries about bent needles, parallax, atc.
  Long tarm celibration stability: 2 years. Easy celibretion ·few adjustments
  Lightwaight: 482 kg (17 ouncas). Dimansions: (LWH) 7.1"x 3.4"x 1.8". Powar: Singla 9V battary, NEDA 1804 (supplied).
  Sefety dasignad tast leeds: Finger guards on tha proba and ahroudad contacts on connactors raduca the chanca of accidantel contact with circuit voltagas.
- Powar: Up to 100 hours of continuous oparation can be axpacted from a singla inaxpensiva, 9-volt, alkelina bettary (transistor radio/calculator typa).
  Low battery voltege is automatically detactad and displayad. Tha low battary indication, BT, appaars in tha displey whan about 10 hours of oparetion ramein.
  Line oparation is possible using a Model A81 Battery Eliminetor. (Saa eccessories at bottom of page).
- Accassorias supplied: Manuel, test leeds (Y-8132), 9V bettary, operator's cerd. spere fusa, statmant of celibration. Saa tacing paga for optionel eccassoriea.

FLUKE HANDHELD DIGITAL MULTIMETER



MODEL 8026B REG. $219.00 OUR PRICE $199.95

Your John Fluke Modal 8026B is a pockat-size digital multimatar that is ideally suitad for applicetion in tha fiald, ieb, shop or homa.

FEATURES

- All VOM functions plus conductanca and continuity (8 in ell) ara includad as stendard.
  DC Voltege—100 uV to 1000V, AC Voltage · 100uV to 750V. **DC Current**—1 uA to 2000 mA, AC Currant · 1 uA to 2000 mA. **Reeletence**—0.1 ohm · 20 M ohm. **Diode Teat. Conductence**—0.1 ns to 200 ns and .001 ms to 2 ms (S = siemens = 1/ohm). **Continuity**—Providas an immadiate audibla indicetion when continuity is datactad.
- DC Accuracy · 0.1%. • Power: Singla 9V bettary, NEDA 1604, (supplied).
- Trua rms AC maasuramant for signals up to 10 kHz.
- Conductance · Allows fest, eccureta, noise fraa resistanca measuramants up to 10,000 M ohm.
- An easy-to-read high contrast 3 1/2 digit liquid crystal display.
- Each range has: Full auto-polerity operetion, Overrenga indicetion, Effactiva protaction from ovarloeds.
- Dual slopa integretion maasurament techniqua to ansura noise-fraa maaeuramants.
- Eesy calibration · few adjustments. • Lightwaight · 369 grams (13 ouncas). • Dimansions: (LWH) 7.1"x 3.4"x 1.8".
- Up to 200 hours of continous oparation can be expacted from a singla, inexpensiva, 9V, alkeline battary (trensistor radio/calculetor typa).
- Low bettery voltage automatically detectad and displeyed.
- Lina operation is possibla using a Model A81 Bettery Eliminetor.
- Protactad tast leade-fingar guerds on the probas end shrouded contacts on tha connactors discourage accidentel contact with circuit voltages.
- Accassories supplied: Manual, test laads (Y-8132), 9V bettary, spera 2A fuse, oparator's card, statamant of calibration. Sea facing page for optionel accassories.

DIGITAL MULTIMETERS

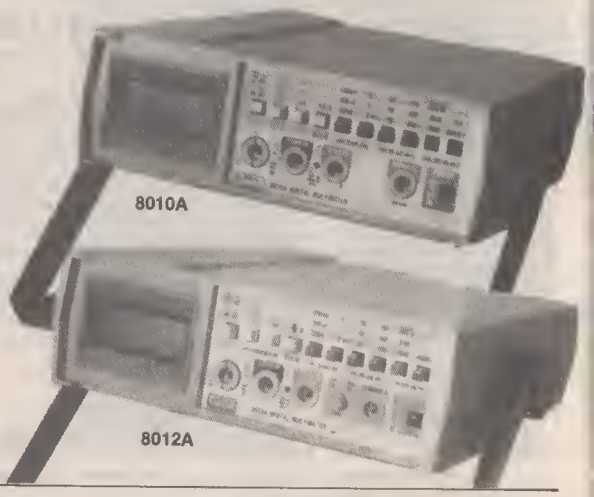
FLUKE PORTABLE BENCH-TYPE, DIGITAL MULTIMETER

MODEL 8010A
REG. $279.95 OUR PRICE **$249.95**

MODEL 8010A-01 (With rechargeable battery)
REG. $319.00 OUR PRICE **$279.95**

MODEL 8012A
REG. $359.00 OUR PRICE **$339.95**

MODEL 8012A-01 (With rechargeable battery)
REG. $399.00 OUR PRICE **$369.95**



FEATURES

- True RMS measurement of AC signals -the only accurate way to directly measure ac signals other than noise-free pure sine wave.
- 3 1½2 digit liquid crystal display - a high contrast display that can be read easily from across the room. No more worries about bent needles, parallax, etc.
- Each range has: Full auto-polarity operation. Overrange indication. Effective protection for overloads and transients. Dual slope integration measurement technique to insure fast, accurate, noise-free measurements.
- The conductance ranges allow accurate, noise-free measurement up to 10,000 M ohm.
- Long term calibration stability - 1 year. Easy calibration -few adjustments.

DESCRIPTION

The Fluke Models 6010A and 8012A are portable bench-type, digital multimeters with 3 1/2 digit liquid crystal display (LCD). Both offer as standard measurement functions the five basic DMM functions (AC/DC voltage, AC/DC current, and resistance) and a new measurement function-conductance. In addition, if you bought the 8010A, you have a high current measurement function of up to 10A. If you bought an 8012A, you have two ranges of low resistance measurements -20 ohm and 2 ohm. The 8010A and 8012A are the same instrument with one exception each - the 8010A has the 10 amp function and the 6012A has the LO RANGE ohm function. If a portion of the text deals with just the 8010A or just the 6012A, than we'll say so. Otherwise, the text applies to both instruments.

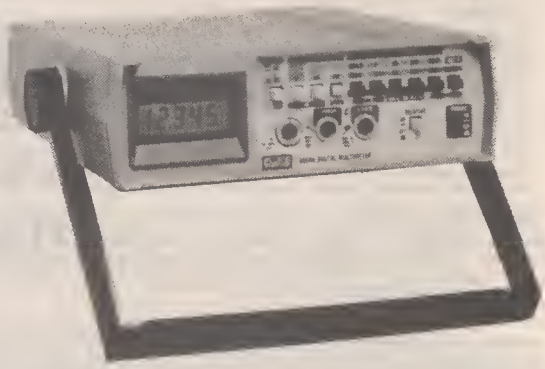
GENERAL SPECIFICATIONS

Power Requirements: 90 to 132V ac or 200 to 264V ac, 50 or 80 Hz, 2W for standard models. With battery version (-01), voltage and frequency range is selectable with internal switches, 3.5W. Rechargeable NiCd batteries and recharge circuits installed in -01 versions. **Dimensions:** (HWD) 2.5"x 6.5"x 10". **Weight:** 2.38 lbs for standard models. 3.13 lbs. for -01 versions with batteries. **Accessories supplied:** Manual, line cord, test leads (Y-8132), statment of calibration.

FLUKE PORTABLE BENCH-TYPE DIGITAL MULTIMETER

MODEL 8050A
REG. $389.00 OUR PRICE **$369.95**

DIGITAL MULTIMETER WITH RECHARGEABLE BATTERY
MODEL 8050A-01
REG. $439.00 OUR PRICE **$419.95**



DESCRIPTION

The Fluke Model 8050A is a portable, bench-type digital multimeter with a 4-1/2 digit liquid crystal display (LCD). The 8050A can make dB voltage measurements (AD and DC) and conductance measurements (1/ohm) in addition to the usual DMM measurements—AC/DC volts, DC current, and resistance.

SPECIFICATIONS

True RMS measurement of AC signals: True RMS measurement is the only accurate way to directly measure AC signals that are not noise-free pure sine waves. The 8050A measures AC voltage frequencies up to 50 kHz. **SEVEN MEASUREMENT FUNCTIONS—AC and DC Volts:** Standard linear voltage measurements from 10uV to 1000V DC and 10mV to 750V AC true RMS. **dB Voltage (dB, dBm, dBW, and dBV):** Allows voltage measurements in decibels referenced to any user selected reference level or any 1-of-16 selectable reference impedences. **AC and DC Current:** Standard current measurements from 10nA to 2A DC and 10uA to 2A AC true RMS. **Resistance:** Standard resistance measurements from 10M ohm to 20M ohm. **Conductance (1/ohm):** Allows fast, noise-free resistance measurements of up to 100,000M ohm. **Each Measurement Range Has:** Autopolarity operation, overrange indication, effective protection from overloads and transients, dual slope integration measurement technique to insure fast, accurate and noise-free measurements. **Relative:** Allows you to store any input signal as an offset or relative reference value. Subsequent measurements are displayed as the difference between the input level and the reference level. Relative reference works for all measurement functions. **Diode Test:** Range of the resistance function that will turn on PN junctions allowing testing of diodes and transistors. These ranges are marked with a diode symbol on the front panel of the 8050A. The preferred 2K ohm range is marked with the largest diode symbol. **In Circuit Resistance Checks:** Are possible with all resistance ranges that are not marked with a diode symbol on the 8050A front panel. **Improved Test Leads:** Finger guards on the probes end shrouded contacts on the input terminals decrease the possibility of accidental contact with circuit voltages. **Power Requirements:** 90 to 110V ac, 105 or 132V ac, or 200 to 264V ac, 47 to 440 Hz, With rechargeable version (-01), the line voltage range is field-changeable. 4W max, 6W max. **Dimensions:** (WHL) 8.5"x 2.5"x 10". **Long-Term Calibration Stability:** 1 year. **Accessories:** Manual, line cord, test leads (Y-8132), see optional accessories below.

FLUKE HANDHELD 4-1/2 DIGIT MULTIMETER

MODEL 8060A REG. $349.00 OUR PRICE **$325.00**

FEATURES

- True RMS measurements for AC signals up to 100 kHz. • Frequency measurements up to 200 kHz.
- Voltage measurements in dB referenced to 600 ohm or in dB relative to an operator-selected reference.
- Resistance measurements up to 300M ohm. • Ability to store any input signal as an offset or relative reference value. • .04% Accuracy.

DESCRIPTION

The Fluke Model 8060A is a handheld, microcomputer-based 4-1/2 digit multimeter that is ideally suited for use in the field, laboratory, shop or home. The 8060A has all the features that have become accepted standards for quality handheld multimeters, as well as some new features that have not been offered before in a handheld multimeter.

SPECIFICATIONS

Functions: All standard DMM measurement functions, such as AC and DC volts and AC and DC current, as well as resistance, conductance, continuity and diode test. **Ranges:** Leading zero suppression. Automatic polarity. Overrange indication. Protection from overloads and transients up to 6 kV. Dual-slope integration a/d conversion to ensure noise-free measurements. Autoranging M ohm resistance range (to 300M ohm), as well as four fixed resistance ranges from 200 ohm to 200K ohm. **Operator Convenience:** 4-1/2 digit liquid crystal display. Software-controlled self-test routines for quick verification of internal circuitry and operation. **Power:** 170 hours of continuous operation can be expected from a 9V alkaline battery (NEDA 1604). Low battery voltage is automatically detected and displayed. The low battery indication, BT, appears on the display when about 20% of the battery life remains. Ordinary line operation is possible using a Fluke Model A61 battery eliminator. A full line of accessories is available to enhance the capabilities of the 8060A. **Power Requirements:** Single 9V battery (supplied), NEDA 1604, typically 170 hrs of operation with alkaline type. **Dimensions:** (LWH) 7.1"x 3.4"x 1.6". **Weight:** .90 lbs. **Accessories supplied:** Manual, Y-8132 test leads, 9V battery, operator's card, spare fuse, statement of calibration.

MODEL 8062A REG. $295.00 OUR PRICE **$269.95**

FEATURES

- .05% accuracy. • True RMS. • 30 kHz bandwidth. • Relative measurements. • Beeper.

THIS FULL LINE OF ACCESSORIES EXTENDS THE RANGE AND SCOPE OF EACH INSTRUMENT

A-61-100 Battery Eliminator (100V ac line)	$ 20.00
A-61-115 Battery Eliminator (115V ac line)*	20.00
C-90 Carrying Case for all hand held meters	12.00
Y-6100 200A DC/AC Clamp-On Current Probe***	229.00
Y-8101 150A AC Current Probe***	75.00
Y-6102 Sheathed Type K Thermocouple	60.00
Y-6103 Bead Type K Thermocouple	25.00
Y-6104 Thermocouple Termination Kit	10.00
Y-6132 Replacement Test Leads (Safety-Designed)**	10.00
Y-6133 Deluxe Test Lead Kit***	20.00
Y-6134 Deluxe Test Lead Kit (Safety-Designed)	20.00
Y-8140 Slim-Flex Test Leads***	20.00
Y-6205 Carrying Case for 6010, 6012, 6050	$ 39.00
60I-600 800 A AC Clamp-On Current Probe***	99.00
80J-10 20A AC/DC Current Shunt***	30.00
80K-6 6,000 High Voltage Probe***	45.00
80K-40 40,000 High Voltage Probe***	80.00
80T-H Touch/Hold Probe	45.00
80T-K Thermo Couple	59.00
80T-SP Surface Type K Thermocouple	95.00
80T-150C Temperature Probe (°C)***	120.00
80T-150F Temperature Probe (°F)***	120.00
83RF Radio Frequency Probe***	49.00
85RF Radio Frequency Probe***	85.00

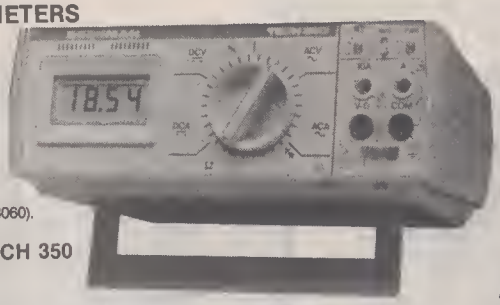
*UL Recognized. **Listed by UL to Safety Standard UL 1244. ***Factory Mutual Approved.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

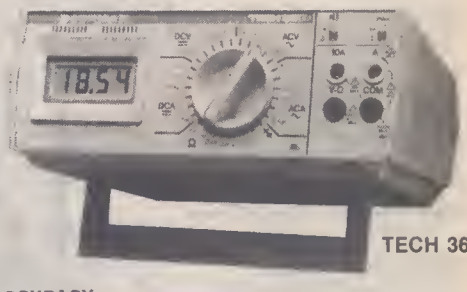
BECKMAN 3-1/2 DIGIT DIGITAL MULTIMETERS

MODEL TECH-350 OUR PRICE $210.00

MODEL TECH-360 OUR PRICE $269.95



TECH 350



TECH 360

FEATURES

- Bright, 0.5 inch LCD display. • Single, easy-to-use switch.
- Separate diode test function. • Complete RF shielding.
- Low-power resistance ranges. • 22 megohms input resistance.
- 12,000 hour battery life (typical). • 1/100 ohm resolution.
- Temperature measurement capability (Model 3060).
- True rms (AC+DC) or AC only measurement capability (Model 3060).
- Continuity 'beep' tone and visual indicator on display.
- 1500 V overload and 6 kV transient protection.
- Safety test leads.
- Integral storage compartment for leads and manual.

DESCRIPTION

Models Tech-350 and Tech-360 contain the basic features and benefits that have made the Series 300 hand-held digital multimeters so popular plus many new features and benefits. An unprecedented 12,000 hour continuous battery life provides the ultimate in ease of operation. In addition, battery operation eliminates ground-loop errors. When the batteries finally become low, the display decimal point blinks on and off to allow several weeks for battery replacement. A low, 20 ohm full-scale range offers resolution down to .01 ohm. A separate diode test range is included. A real time saver for short-circuit and continuity checks is the aural/visual continuity indicatore. An audible 'beep' tone signals the instant continuity is established. At the same time, a visible ohms-sign indicator appears on the display. High overloads protection prevents meter down time, so all voltage ranges are protected for inputs up to 1500 VDC or 1000 V rms. Both models are equipped with MOV's to protect against voltage transients up to 6 kV for 10 microseconds. All resistance ranges are protected for inputs up to 440 VDC or AC. Current ranges are doubly protected against overloads by a 2 A/250 V front panel fuse and an internal 3 A/600 V fuse. Special safety test leads ensure maximum protection against shock hazards. A sheath encased banana plug and safety grip finger guards prevent the operator from making accidental contact with circuit voltages. Model Tech-360 has an input jack for a standard k-type thermocouple, enabling the user to measure temperatures from —20°C to +1265°C. The Tech-360 also has switch selectable measurement to true rms (AC+DC) or AC only voltages and currents.

SPECIFICATIONS

- DC Volts: 0.2 to 1500 volts in 5 ranges; 100 uV resolution.
- AC Volts: 0.2 to 1000 volts in 5 ranges; 100 uV resolution.
- DC Current: 0.2 uA to 10 A in 6 ranges; 100 nA resolution.
- AC Current: 0.2 uA to 10 A in 6 ranges; 100 nA resolution.
- Resistance: 20 ohms to 20 megohms full range in 7 ranges; 0.01 ohm resolution.
- Diode Test: 0 to 1 volts, 1 range; 1 mV resolution.
- Temperature: —20°C to +1265°C; 1 range; 1° resolution.

GENERAL SPECIFICATIONS

- Operating Temperature Range: 0°C to +50°C.
- Temperature Coefficient: Less than 15% of applicable accuracy specification per °C (0°C to 20°C, 30°C to 50°C).
- Battery Life (six 'D' cells): 12,000 hours of continuous use.
- Size: 7"L x 3.4"W x 3.4"H.
- Weight: 32 ozs. including batteries.

DL-243 Test lead kit **$12.00**
TP-254 Temperature probe **49.00**
DC-206 Case for Bench Meters **35.00**

ACCURACY

Guaranteed accuracy specifications: ± (% of reading + no. of digits) for 1 year at 25°C ±5°C (see table below).

Function	350	360
DC volts	0.1% +1	0.1% +1
AC volts		
45 Hz to 2 kHz	0.6% +3	0.6% +3
2 kHz to 5 kHz	1.0% +5	1.0% +4
5 kHz to 10 kHz	2.0% +9	1.5% +5
10 kHz to 20 kHz	------	2.0% +7
DC current		
200 uA to 2 A	0.35% +1	0.35% +1
10A	1.0% +1	1.0% +1
AC current		
45 Hz to 2 kHz*	0.9% +3	0.9% +3
2 kHz to 5 kHz**	------	1.5% +1
Resistance		
20 ohm range	0.5% +1	0.5% +1
200 ohms to 2M ohm	0.2% +1	0.2% +1
20 megohm range	1.0% +1	1.0% +1
Diode test	0.1% +2	0.1% +2
Temperature	------	±4°C***

*Except 10 A range. **Except 2 and 10 A ranges.
***From —20°C to +300°C.

BECKMAN HEAVY-DUTY SERIES DIGITAL MULTIMETERS

MODEL HD-100 OUR PRICE $169.00

MODEL HD-110 OUR PRICE $189.00

MODEL HD-110T OUR PRICE $209.00

MODEL HD-130 OUR PRICE $239.00

MODEL HD-140 OUR PRICE $259.00

NEW!

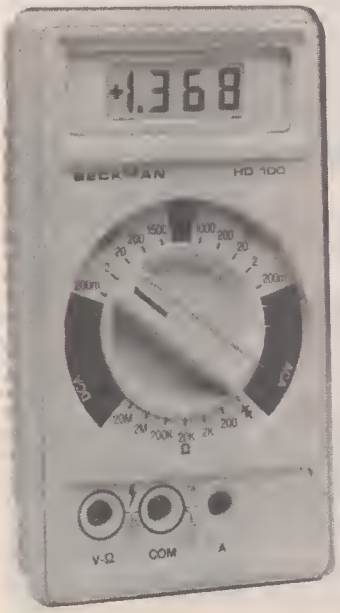
FEATURES

- Drop Proof, Shock Proof and Waterproof. • High overload protection. • Easy-to-use

DESCRIPTION

The Heavy-Duty series provides reliable, dependable performance under rugged industrial and field service conditions. The HD multimeters have a maximum voltage rating of 1500 volts DC and 1000 volts AC, and an input impedance up to 22 megohms. Special features of the HD multimeters include up to 2,000 hours of battery life. Insta-Ohms® Quick Continuity signals continuity within milliseconds. Diode Test Function gives accurate measurements of forward voltage drops across diodes and transistor junctions. Each meter has RF shielding and a multiposition tilt bail. Every HD meter has a fire-retardant thermoplastic case, which is extra thick to resist cracking or chipping even if accidentally dropped from 10 feet. Sensitive components are shock mounted. O-ring seals make the housing waterproof, dirt-proof and grime-proof. The single rotary function/range selector switch on each multimeter has a special patented design that eliminates friction wear for years of continued use. Overload protection is a standard feature. All voltage ranges can withstand transients up to 6KV. Resistance ranges are protected to 600 volts and current ranges are protected by a 2 amp/600 volt fuse. And all HD meters are backed by a one-year, no fault warranty.

The **HD-100** is a dependable all-around meter which measures current up to 2 amps. It has an accuracy of 0.25% on the DC voltage ranges. The **HD-110** measures 10 amps AC or DC without special adaptors. The 10 amp range withstands up to 20 amps for 30 seconds (unfused), and provides accuracy of 0.25% on the DC voltage ranges. The **HD-110T** switches from measuring Fahrenheit to Celsius with a simple field adjustment. This meter uses any K-type thermocouple with a standard miniature or subminiature connector. It measures from -4°F to 1999°F (-20°C to 1260°C) with one degree resolution. A K-type thermocouple wire (model TP-255) is included for measurments from 32°F to 392°F (0°C to 200°C). The HD-110T also provides all the standard features of the HD-110. The **HD-130** features True RMS (AC + DC coupled) for accurate measurments of complex waveforms. The Adaptor Capacitor Accessory (model BC-047) is included with the HD-130 to allow decoupling of the AC and DC signals. Accuracy is 0.1% up to 1500 volts DC. The AC band width is 100KHz. The **HD-140** features a 4-1/2 digit display for high resolution and greater accuracy. DC voltage accuracy is 0.05%. AC volts and amps are measured in True RMS (AC coupled) to provide accurate readings of complex waveforms.



GENERAL SPECIFICATIONS

Operating Temperature: 0°C to 50°C. **Storage Temperature:** -40°C to 65°C (battery removed). **Max Common Mode Voltage:** 1,500 Vdc or peak ac. **Display:** 3-1/2 digit LCD (1999 count), HD-140 4-1/2 digit display. **Battery:** 1-9V NEDA 1604 supplied. **Battery Life Alkaline:** 2,000 hours. **Low Battery Indicator:** Blinking Decimal Point. **Overload Indication:** 'OL'. **Shock and Vibration** Meets MIL-T-28800 specifications. **Relative Humidity:** 0 to 80%, 0°C to 35°C, 0 to 70%, 35° to 50°. **Temperature Coefficient:** Less than 15% of applicable accuracy spec per °C (0°C to 20°C, 30°C to 50°C). **Weight:** 19 oz. incl. battery. **Dimensions:** 7.0"L x 3.9"W x 2"H (17.6 x 9.9 x 5.1 cm). **Calibration:** Accuracy specification guaranteed for one year. **Calibration Adjustments:** One. **Measurement Rate:** Four per second.

MODEL	HD-100	HD-110/HD-110T	HD-130	HD-140
DC Voltage				
Ranges	5/±200m, 2, 20, 200, 1500	5/±200m, 2, 20, 200, 1500	5/±200m, 2, 20, 200, 1500	5/±200m, 2, 20, 200, 1500
Resolution	100uV	100uV	100uV	10uV
Accuracy	0.25% +1	0.25% +1	0.1% +1	200mV range 0.05% +2 2.0V range: 0.06% +2 20V to 1500V ranges: 0.07% +2
Input impedance	22M ohm	22M ohm	22M ohm	10M ohm
AC Voltage				
Ranges	5/200m, 2, 20, 200, 1000	5/200m 2, 20, 200, 1000	5/200m, 2, 20, 200, 1000	5/200m, 2, 20, 200, 1000
Resolution	100uV	100uV	100uV	10uV
Accuracy:				
45Hz-2KHz	0.75% +3	0.75% +3	0.6% +3	0.5% +20(1000V range to 1Khz only)
2KHz-5KHz	1.5% +5	1.5% +5	1.0% +4	0.5% +30(0.5% +20 on 200mV range)
5KHz-10KHz	2.5% +9	2.5% +9	1.5% +5	1.0% +40(0.5% +20 on 200mV range)
10KHz-20KHz	Not Specified	Not Specified	2.0% +7	Not Specified
Resistance				
Ranges	6/200, 2k, 20k, 200k, 2M, 20M	6/200, 2k, 20k, 200k, 2M, 20M	6/200, 2k, 20k, 200k, 2M, 20M	5/2k, 20k, 200k, 2M, 20M
Resolution	0.1 ohm	0.1 ohm	0.1 ohm	0.1 ohm
Accuracy:				
20 ohm range	NA	NA	NA	NA
200 ohm to 2M ohm ranges	0.5% +1	0.5% +1	0.2% +1	0.1% +2
20M range	1.5% +1	1.5% +1	1.0% +1	0.3% +2
DC CURRENT				
Ranges	5/200u, 2m, 20m, 200m, 2	6/200u, 2M, 20m, 200m, 2, 10	6/200u, 2, 20m, 200m, 2, 10	6/200u, 2m, 20m, 200m, 2, 10
Resolution	100nA	100nA	100nA	10nA
Accuracy:				
200uA-2mA ranges	0.75% +1	0.75% +1	0.35% +1	0.2% +2
20mA-200mA ranges	0.75% +1	0.75% +1	0.35% +1	0.3% +2
2A range	0.75% +1	0.75% +1	0.35% +1	0.5% +2
10A range	NA	1.5% +1	1.0% +1	1.0% +2
AC CURRENT				
Ranges	5/200u, 2m, 20m, 200m, 2	6/200u, 2m, 20m, 200m, 2, 10	6/200u, 2m, 20m, 200m, 2, 10	6/200u, 2m, 200m, 200, 2, 10
Resolution	100nA	100nA	100nA	10nA
Accuracy:				
45Hz-2KHz (except 10A range) (45Hz-1KHz on model HD-140)	1.5% +3	1.5% +3	0.9 +3	200uA to 2mA ranges: 0.7% +20 20mA to 200mA ranges: 0.8% +20 2A range: 1.0% +20

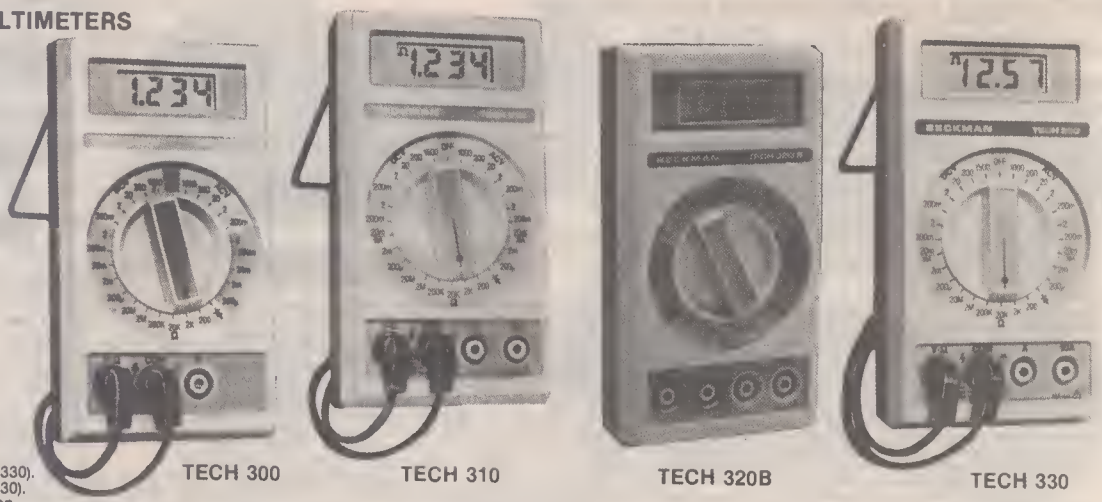
BECKMAN 3-1/2 DIGIT MULTIMETERS

MODEL TECH-300
OUR PRICE $120.00 each

MODEL TECH-310
OUR PRICE $140.00 each

MODEL TECH-320B
OUR PRICE $170.00 each

MODEL TECH-330
OUR PRICE $209.00 each



TECH 300 TECH 310 TECH 320B TECH 330

FEATURES

- Bright, 0-5 inch LCD readout.
- Continuity test function (TECH-310 & TECH-330).
- 10-Amp current ranges (TECH-310 & TECH-330).
- 1500 V overload and 6 kV transient protection.
- 2 years normal operation from common 9 V battery.
- Low power ohms in all ohms ranges for in-circuit resistance measurements.
- Diode/transistor test function with in-circuit junction test capability.
- 22Megohm input resistance on all DCV ranges.
- 10 kHz frequency response on all AC volts (20 kHz on TECH-330).
- Autopolarity autozeroing.
- Rugged design — survives even a 6 foot drop.
- Complete with battery, spare fuse, manual and safety designed test leads.
- True RMS measurement capability to 20 kHz (TECH-330).

DESCRIPTION

Recessed display and single rotary switch prevent damage while in tool box or on the job. Case keeps out dirt, fluids and other contaminents. Insta-Ohms Continuity Function (Model TECH-310 and TECH 330) makes electrical continuity checks with the speed and ease of an analog meter, but with no needle movement to break. In any resistance range, an ohm symbol appears in the display the instant continuity is established with test leads. 22 megohm input resistance on all DCV ranges reduces reading errors caused by circuit loading. The model TECH 330 measures both AC voltage and current in true RMS (AC + DC). Signals with high harmonic content and complex waveforms, such as switching power supplies and SCR regulators, can be measured easily and accurately. Measure up to 10 amps (TECH-310 and TECH-330) or 2 amps (TECH 300) AC or DC continuously, without adding special adapters. All voltage ranges are protected for inputs above 15000 VDC or 1000 V rms. All resistance ranges protected to 300 VDC or V rms. Both voltage and resistance ranges protected against voltage transients up to 6 kV. The 2-amp current input of all models is protected by an easy-to-replace fuse. The 10-amp current input (TECH-310 and TECH-330) is rated for up to 20 amps for 30 seconds. Two year battery life under typical use. Common 9 V battery provides up to 2,000 hours of continuous operation. Decimal point blinks during last 200-hours of battery life. One single center switch makes the instrument easier to use and more reliable than pushbutton digital multimeters. In-circuit diode test function allows accurate measurements of forward voltage drops across diode and transistor junctions with 5 mA test current. Semiconductor junctions can also be measured while in-circuit with as little as 200 ohms shunt resistance. Low-power ohms in all resistance ranges permits accurate measurements of resistors in or out of circuit. Low test voltage ignores common diode and transistor junctions for in-circuit measurements. Test leads designed to protect operator from accidental shock hazards. Weighs only 16 oz. Fits easily in tool box or attache case. Convenient, built-in tilt-bail snaps open for hanging or bench use. Anti-skid pads keep instrument solidly in place when measurements are being made. Custom Beckman CMOS LSI chip, 100% instrument burn-in and factory test of every function and range assure traditional Beckman high reliability. Specified accuracies are guaranteed for a full year. Choice of three models. TECH-310 has 7 functions and 29 ranges, plus 0.25% VDC accuracy. TECH-330 has 7 functions and 29 ranges, plus 0.1% VDC accuracy and true RMS capability (AC + DC). TECH-300 has 0.5% VDC accuracy and all the features of TECH-310, except the continuity test function and 10-amp current ranges. A variety of accessories available for use with all models.

SPECIFICATIONS

- DC Volts: 0.2-1500 V in 5 ranges; 100 uV resolution.
- AC Volts: 0.2-1000 V in 5 ranges; 100 uV resolution.
- Current (AC or DC):
  TECH-300: 200 uA to 2 A in 5 ranges; 100 nA resolution.
  TECH-310 and TECH-330: 200 uA to 10 A in 6 ranges; 100 nA resolution; Measurements between 10 and 19.99 A for 30 sec. max.
- Resistance: 200 ohms to 20 megohms in 6 ranges; 0.1 ohm resoultion.
- Diode test: 0-2 V, 1 range; 1 mV resolution.

ACCURACY

Guaranteed Accuracy Specifications: ± (% of reading + no. of digits) for 1 year at 25°C ±5°C (see table below).

Function	TECH-300	TECH-310	TECH-330
DC volts	(0.5% + 1)	(0.25% + 1)	(0.1% + 1)
AC volts	(1.5% + 4)†	(0.75% + 1)†	(0.6% + 3)†
DC current	(1.0% + 1)	(0.75% + 1)★	(0.35% + 1)
AC current	(2.0% + 4)†	(1.5% + 1)§†	(0.9% + 3)†
Resistance	(0.75% + 1)*	(0.5% + 1)*	(0.2% + 1)*
Diode Test	(0.5% + 2)	(0.25% + 2)	(0.1% + 2)

★Except 10 A range, (1.5% + 1). §Except 10 A range, (2.0% + 3) 45-400 Hz only. *Except 20 megohm range, (1.5% + 1). †Accuracy at 45 Hz to 2 kHz.

GENERAL SPECIFICATIONS

- Operating Temperature Range: 0°C to +50°C.
- Temperature Coefficient: Less than 15% of applicable accuracy specification per °C (0°C to 20°C, 30°C to 50°C).
- Battery Life (9 V alkaline): 2,000 continuous hours typical.
- Size: 1.6"H x 3.65"W x 6.85"L.
- Weight: 16 oz. with battery.

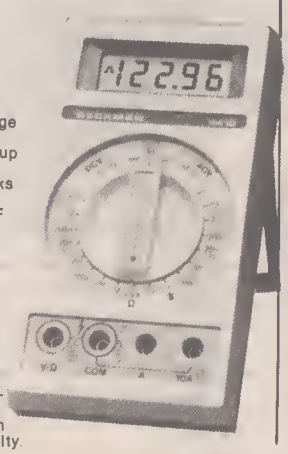
TECH-320B

The TECH-320B Model has all the features just described including the Insta-Ohms Quick Continuity test function and ten ampere AC/DC current ranges plus audible indication of continuity. It has an accuracy of ±0.1% of reading in DC volts.

Model	Description	Our Price
VC-201	Vinyl Carrying Case	$ 10.00
DC-205	Deluxe Carrying Case	29.00
HV-211-10	50 kV High Voltage Probe	55.00
HV-211-22	50 kV High Voltage Probe	55.00
RF-221	200 MHz RF Probe	45.00
CT-231	150 AMP AC Current Clamp	69.00
CT-232	1000 AMP AC Current Clamp	169.00
DL-243	Deluxe Test Lead Kit	12.00

BECKMAN
4½-DIGIT HANDHELD MULTIMETER
MODEL 4410

OUR PRICE $225.00



FEATURES

- Increased accuracy of up to 0.05% basic DC voltage.
- Easy to use single rotary switch makes function and range selection less confusing than with push-buttons.
- Built-in 10 amp AC/DC capability allows you to measure up to 10 amps AC or DC without special adaptors.
- Insta-Ohms® continuity function means continuity checks with the speed and ease of an analog meter.
- RF shielding to assure accurate readings around high RF energy fields.
- True RMS for 4½-digit precision and non-sinusoidal waveform measurement, rely on the Model 4410. It calculates the true RMS value of all signal regardless of waveform. Pulse trains, triangular waves or distorted sinewaves, for example, can cause measurement error when read with a standard digital multimeter or analog meter—which are calibrated to measure pure sine waves only.

DESCRIPTION

You get 4½-digit precision measurements in all meter functions, not just on DC voltage. You get a product make of first-rate materials, that's easy to operate. And you get high performance features, including true RMS, and high reliability.

CIRCUITMATE PORTABLE DIGITAL CAPACITANCE METER
MODEL CM-20

OUR PRICE $129.00

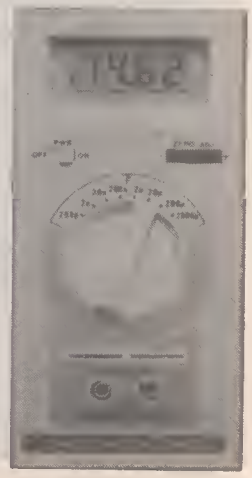
FEATURES

- 6 ranges: 0.1pF to 1999μF.
- 0.5% basic accuracy.
- Overrange indicator.
- Low battery indicator.
- Separate lead insertion jacks and banana jacks.
- Optional AC/DC adapter.

DESCRIPTION

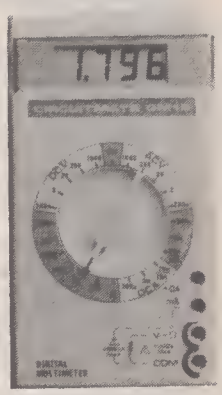
The CM-20 is a portable digital capacitance meter handy for field servicing or bench-top use. The hand-held size CM-20 measures capacitance ranging from 0.1pF to 1999μF and is convenient and easy to use. With only one knob, eight ranges may be selected: 200pF to 2000μF full-scale. A zero-adjust knob improves the accuracy of small value measurements and cancels stray capacitance caused by wiring.

Other features include an easy-to-read 3½ digit, ½-inch high LCD display, and tilt bail and anti-skid pads to keep the meter steady for easy reading on bench tops. Capacitance readings are made quickly at a rate of 2½ measurements per second.



CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER

MODEL DM-15 **OUR PRICE $59.95**

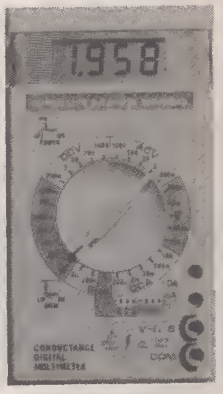


FEATURES
- 8 functions and 25 renges. • 0.8% basic VDC eccurecy.
- Diode/transistor test function. • Pocket size.
- Auto-polarity, auto-zero, and auto-decimel.
- Single function and range eelector switch.
- 10 amps AC and DC current capeblility.

SPECIFICATIONS
Accuracies ere ±(% reeding + number of digits) at 23°C ±5°C, less then 70% RH. **Digits:** 3-1/2. **Functions:** DC volts, AC volts, DC amps, AC emps, Resistence, Diode test. **DC VOLTS—Rengas:** 5 (.2V to 1000V). **Accuracy:** .8% of reeding +1 digit. **Input Impedance:** 10M ohm. **AC VOLTS—Ranges:** 5 (.2V to 1000V). **DC CURRENT—Ranges:** 4 (200uA, 2mA, 20mA, 10A). **RESISTANCE—Ranges:** 8 (200 to 20M ohm). **CAPACITANCE—Rengas:** N/A. **Accurecy:** N/A. **AC CURRENT—Renges:** 4 (200uA, 2uA, 20mA, 10A). **Dimensions:** (HWD) 5-7/8"x 3-1/4"x 7/8". **Weight:** 5.75 oz. **Accessories supplied:** test leeds, battery, instruction manuel. Case not included.

CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER

MODEL DM-20 **OUR PRICE $69.95**

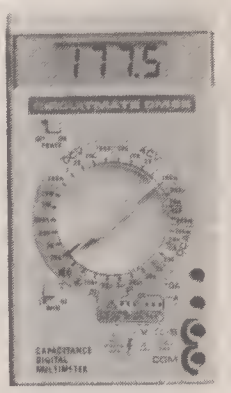


FEATURES
- 8 functions and 30 ranges. • 0.8% besic VDC accuracy.
- Diode/trensistor test function. • Pocket size.
- Auto-polarity, auto-zero, and euto-decimal.
- Single function and renge selector switch.
- 10 amps AC and DC current cepeblility.
- Conductance. • Trensistor gein test (hFE).

SPECIFICATIONS
Accuracies ere ±(% reading + number of digits) at 23°C ±5°C, less than 70% RH. **Digits:** 3-1/2. **Functions:** DC volts, AC volts, DC amps, AC amps, Resistence, Diode test, HFE test, Conductence. **DC VOLTS—Rengas:** 5 (.2V to 1000V). **Accuracy:** .8% of reeding +1 digit. **Input Impedance:** 10M ohm. **AC VOLTS—Rengas:** 5 (.2V to 1000V). **DC CURRENT—Ranges:** 5 (200uA, 2mA, 20mA, 200mA, 10A). **RESISTANCE—Rengas:** 8 (200 to 20M ohm). **CAPACITANCE—Rengas:** N/A. **Accuracy:** N/A. **AC CURRENT—Rengas:** 5 (200uA to 10A). **Dimensions:** (HWD) 5-7/8"x 3-1/4"x 7/8". **Weight:** 5.75 oz. **Accessories supplied:** test leads, battery, instruction manuel. Case not included.

CIRCUITMATE BY BECKMAN
DIGITAL MULTIMETER

MODEL DM-25 **OUR PRICE $79.95**

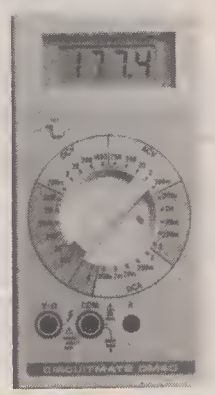


FEATURES
- 8 functions end 30 ranges. • 0.5% besic VDC accurecy.
- Diode/trensistor test function.
- Auto-polarity, auto-zero, and auto-decimal.
- Single function end range selector switch.
- 10 amps AC and DC current cepebility.
- Conductence. • Cepacitence. • Pocket size.

SPECIFICATIONS
Accuracies are ±(% reading + number of digits) at 23°C ±5°C, less than 70% RH. **Digits:** 3-1/2. **Functions:** DC volts, AC volts, DC emps, AC amps, Resistance, Diode test, Conductance, Continuity (beeper), Cepacitence. **DC VOLTS—Rengas:** 5 (.2V to 1000V). **Accuracy:** .5% of reeding +1 digit. **Input Impedance:** 10M ohm. **AC VOLTS—Rengas:** 5 (.2V to 1000V). **DC CURRENT—Rengas:** 4 (200uA, 20mA, 200mA, 10A). **RESISTANCE—Rengas:** 8 (200 to 20M ohm). **CAPACITANCE—Rengas:** 5 (20mF to 20uF). **Accurecy:** .5% of reading +4 digits. **AC CURRENT—Rengas:** 4 (200uA to 10A). **Dimensions:** (HWD) 5-7/8"x 3-1/4"x 7/8". **Weight:** 5.75 oz. **Accessories supplied:** test leads, bettery, instruction menual. Case not included.

CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER

MODEL DM-40 **OUR PRICE $69.95**

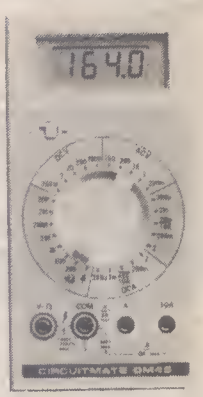


FEATURES
- 8 functions and 27 renges. • 0.8% basic VDC accuracy.
- Diode/transistor test function. • Full size with tilt bell.
- Auto-polarity, auto-zero, end auto-decimal.
- Single function and range selector switch.

SPECIFICATIONS
Accuracies are ±(% reeding + number of digits) at 23°C ±5°C, less then 70% RH. **Digits:** 3-1/2. **Functions:** DC volts, AC volts, DC amps, AC amps, Resistence, Diode test. **DC VOLTS—Rengas:** 5 (.2V to 1000V). **Accuracy:** .8% of reading +1 digit. **Input Impedance:** 10M ohm. **AC VOLTS—Rengas:** 5 (.2V to 750V). **DC CURRENT—Rengas:** 5 (200uA, 2mA, 20mA, 200mA, 2A). **RESISTANCE—Rengas:** 8 (200 to 20M ohm). **CAPACITANCE—Rengas:** N/A. **Accuracy:** N/A. **AC CURRENT—Rangas:** 5 (200uA, 2mA, 20mA, 200mA, 2A). **Dimensions:** (HWD) 6-7/8"x 3-1/2"x 1-3/8". **Weight:** 9 oz. **Accessories supplied:** test leads, battery, instruction manual. Case not included.

CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER

MODEL DM-45 **OUR PRICE $89.95**

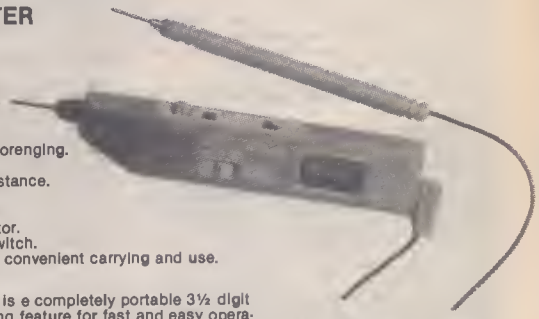


FEATURES
- 7 functions and 30 ranges. • 0.5% basic VDC eccuracy.
- Diode/transistor test function. • Full eize with tilt ball.
- Auto-polarity, auto-zero, and auto-decimal.
- Single function end range selector switch.
- Continuity beeper. • 10 emps AC and DC current capability.

SPECIFICATIONS
Accurecies are ±(% reading + number of digits) et 23°C ±5°C, less than 70% RH. **Digits:** 3-1/2. **Functions:** DC volts, AC volts, DC amps, AC amps, Resistance, Diode test, Continuity (beeper). **DC VOLTS—Rengas:** 5 (.2V to 1000V). **Accuracy:** .5% of reading +1 digit. **Input Impedance:** 10M ohm. **AC VOLTS—Ranges:** 5 (.2V to 750V). **DC CURRENT—Renges:** 8 (200uA, 2mA, 20mA, 200mA, 2A, 10A). **RESISTANCE—Renges:** 8 (200 to 20M ohm). **CAPACITANCE—Ranges:** N/A. **Accurecy:** N/A. **AC CURRENT—Ranges:** 5 (200uA, 2mA, 20mA, 200mA, 2A, 10A). **Dimensions:** (HWD) 8-7/8"x 3-1/2"x 1-3/8". **Weight:** 9 oz. **Accessories supplied:** test leads, bettery, instruction menuel. Case not included.

CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER

MODEL DM-73
OUR PRICE $59.95

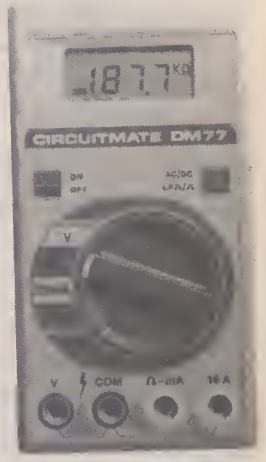


FEATURES
- 3½-digit LCD display. • Autorenging.
- 0.5% basic Vdc Accuracy.
- Overload Protection. • Resistance.
- DC Volts. • AC Volts.
- Continuity Beeper.
- Low Battery Voltage Indicator.
- Single Function Selector Switch.
- Compact pen-style case for convenient carrying and use.

DESCRIPTION
The Circuitmete Model DM73 is e completely portable 3½ digit multimeter with an autoranging feature for fast and easy operation. This multimeter is designed for use by techniciens, servicemen, and hobbylets who expect eccurecy, reliebility, end easy operetion. The Model DM73 is equipped with four functions. A single switch selects the function, end the autoranging feeture will eutomatically adjust the dieplay to the proper range. The liquid crystal dispiey is easy-to-read, both indoors and outdoors, even in direct sunlight. The touch hold feature mekes reading the display easy and convenient.

SPECIFICATIONS
Opereting tamperature range: 0°C to + 40°C. **Storage tempsretura ranga:** -20°C to +60°C with battery removed. **Display:** 3½-digit liquid cystal display (LCD) with a maximum reading of 1999. **Power:** Two 1.5-volt, button batteries, Type LR-44 or SR-44. **Battery Life (Typical)** 100 hours (with SR-44 batteries). **Meeeurment Rete:** Two measurements per second. **Dimensions:** 5.25 inches (13.3 cm) long x .90 inches (2.3 cm) wide x 0.63 inches (1.8 cm) high. **Weight (including batteries)** 1.9 ounces (55 grams). **Standerd Accessories:** Betteries (instelied, Test lead set, Operator's manual. **Electricel specifications:** Accurecy at 18°C to 28°C, 60% maximum relative humidity.

CIRCUITMATE by BECKMAN
DIGITAL MULTIMETER
MODEL DM-77
OUR PRICE $69.95



FEATURES
- 3½-digit LCD display. • Overload Protection.
- DC Volts. • AC Volts. • Resistence.
- Duel Voltage Resistance. • Autorenging.
- DC Amps. • AC Amps. • 10 Amps AC end DC.
- Continuity Beeper. •0.5% basic dc Accuracy.
- Low Battery Voltage Indicator.
- Single Function Selector Switch.

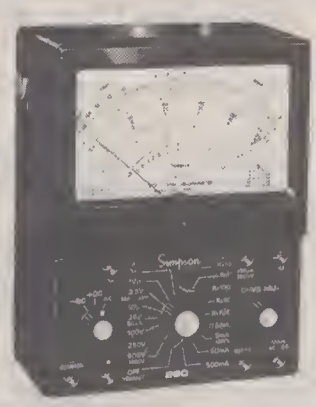
DESCRIPTION
The Circuitmate Model DM-77 is a completely portable, 3½-digit multimeter with an eutorenging feeture for fast end easy operetion. The DM-77 is designed for use by technicians, servicemen, and hobbyists who expect accuracy, reliebility, end easy operation. The DM-77 is equipped with seven functions, with autorenging and en easy-to-use rotary selector switch.
A single switch selects the function, and the eutoranging feature will eutometicelly adjust the display to the proper range. The liquid crystal display is easy-to-read, both indoore and outdoors, even in direct eunlight.

SPECIFICATIONS
Opereting temperetura rengs: 0°C to + 40°C. **Storage tampereture range:** -20°C to +60°C with battery removed. **Display:** 3½-digit liquid cystal dispiey (LCD) with a maximum reading of 1999. **Power:** Two standard 1.5 volt, AA batteries. **Battery Life (Typical)** 300 houre **Measurment Rete:** Two measurements per second. **Dimensions:** 8.30 inchee (18.0 cm) long x 3.35 inchee (8.5 cm) wide x 1.5 inches (2.9 cm) high. **Weight (including batteries)** 8.4 ounces (239 grame). **Standard Accessories:** Batteries (installed, Spare fuse, Test lead aet, Operator'e manual. **Electrical specifications:** Accurecy et 18°C to 28°C, 60% meximum relative humidity.

TEST INSTRUMENTS

SIMPSON METERS
MODEL 260-6XL

OUR PRICE $129.50



FEATURES

[X] for extra range and features.
[L] for low-power ohms capabilities.

- Direct dial reading of Amp-Clamp ranges.
- External access battery and fuse compartment.
- Clip-type fuse holder and extra fuse.
- Optional 5 kV slip-on safety probe.
- Multi-purpose, test leads with combination probe and alligator clips.
- Only two batteries . . . one 9-volt NEDA 1604 and one 1.5-volt "D" cell NEDA 13F. Batteries supplied.
- Rugged taut band movement, varistor protected.

EXTRA FEATURES

- Extra large viewing area with four-color, color-keyed scales.
- Extra drop-resistant, high-impact custom-molded panel and case.

EXTRA RANGES

- DC Volts: 0-25 and 0-100.
- AC Volts: 0-25 and 0-100.
- DC Milliamperes: 0-5 and 0-50.
- DC Amperes: 0-5 (250 mV drop).
- dB Scale: —1 to +29 and +11 to +41 (1mW 600 ohm reference).
- Standard Resistance: RX1 (6 ohm center scale); RX100 (600 ohm center scale).
- RX1K (6,000 ohm center scale).
- RX10K (60,000 ohm center scale).
- Low Power Resistance: RX1 (20 ohm center scale); RX10 (200 ohm center scale).
- Max. open circuit voltage only 100 mV. Max. measuring power only 0.125 mW.

DESCRIPTION

Simpson developed the 260-6XL to answer the need for a volt-ohm-milliammeter with extra features including drop resistant construction, low-power ohms and additional voltage, current and resistance ranges. It has an extra large viewing area, 4-color, color-keyed scales and 33 measuring ranges plus all of the deluxe features of the famous 260. Complete with batteries, color-coded test probe leads with screw-on clips and instruction manual.

ADDITIONAL MODELS

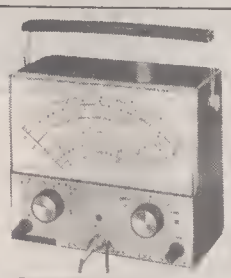
- **260-6XL,** complete with batteries, test leads and manual . . . . . **Our Price $129.50**
- **260-6XLM,** with mirror scale . . . . . **Our Price $147.00**
- **260-6XLP,** complete with batteries, test leads and manual . . . . . **Our Price $190.00**
- Reset pushbutton releases when overload exists. Will not reset until overload condition is eliminated.
- 260-6XLPM, with mirror scale . . . . . **Our Price $198.00**

SPECIFICATIONS

- DC Volts: [X] 0-0.250; 0-1; 0-2.5; 0-10; 0-25; 0-100; 0-250; 0-500; 0-1000.
- AC Volts: [X] 0-2.5; 0-10; 0-25; 0-100; 0-250; 0-500; 0-1000.
- DC Microamperes: [X] 0-50 (250 MV drop); 0-0.5; 0-5; 0-50; 0-500.
- DC Amperes: [X] 0-5 (250 MV drop).
- AC Amperes: [X] 6 ranges from 0-5 to 0-250 with optional Model 150 Amp-Clamp adaptor.
- DB Scale (1 MW 600 ohm Reference): [X] —20 to +10; —9 to +21; —1 to +29; +11 to +41; +19 to +49.
- Resistance (standard power): [X] Rx1 (6 ohm center scale), Rx100 (600 ohm center scale), Rx1K (6000 ohm center scale), Rx10K (60,000 ohm center scale).
- Resistance (low power): [XL] Rx1 (20 ohm center scale), Rx10 (200 ohm center scale). Max. open circuit voltage only 100 mV. Max. measuring power only 0.125 mW.

SIMPSON SOLID STATE FET VOM
MODEL 313-3

OUR PRICE $275.00



FEATURES

- Voltage ranges overload protected.
- Portable battery powered operation.
- Easy-to-read 7-inch scale.
- Built-in 'battery test' function.

SPECIFICATIONS

- **DC Volts:** 0 to 0.3, 1, 3, 10, 30, 100, 300, 1000.
- **AC Volts:** 0 to 0.3, 1, 3, 10, 30, 100, 300, 1000 rms. 0 to 0.9, 2.6, 9, 26, 90, 260, 900, 2800 p-p
- **DC Current:** 0 to 0.1, 1, 10, 100mA, 0 to 1 amp.
- **Resistance:** RX1, RX10, RX100, RX1K, RX10K, RX100K, RX1M at 10 ohms center scale.
- **Decibels:** —10 to +60 dB in 8 ranges.
- **Accuracy:** ±2% DC and ±3% AC full scale.
- **Input Impedance:** 11 megohms DC, 10 megohms AC.
- **Frequency Response:** ±0.5 dB from 20 Hz to 20 kHz; to 100 kHz on three lowest ranges.
- **Size (WHD):** 7-3/4 x 6-3/4 x 4-5/8".
- **Weight:** 4-1/3 lbs.
- **Simpson Model 313 FET VOM:** Complete with probe, batteries and operator's manual.

SIMPSON HANDI-VOM
MODEL 160 OUR PRICE $95.00

DESCRIPTION

Miniature VOM is shock and drop resistant. Has self-shielding, taut band movement, veristor protected from overload, accuracy and sensitivity of full-size VOM.

SPECIFICATIONS

- **DC Volts:** 0 to .25, 1, 2.5, 10, 50, 250, 500, 1000 volts at 20,000 ohms per volt sensitivity.
- **AC Volts:** 0 to 2.5, 10, 50, 250, 500, 1000 volts at 5000 ohms per volt sensitivity.
- **DC Current:** 0 to 50uA; 0 to 1, 10, 100, 250, 500 mA.
- **dB:** —20 to +10, —6 to +22, +6 to +36, +20 to +50.
- **Resistance:** RX1, RX10, RX100, RX1K, RX10K.
- **Accuracy:** DC ±2%; AC ±3%.
- **Size (HWD):** 4-9/16 x 3-5/18 x 1-3/4".
- **Weight:** 12 ozs.
- **Simpson Model 160 Handi—VOM:** Complete with alligator clip leads, batteries and operator's manual.

Model 160 Handi-VOM.

Low cost Vinyl Carrying Case, #2935	$12.95
Vinyl Carrying Case, #2225	22.50
Vacuum Formed Carrying Case, #2929	35.00
Probe Tip Leads, #02055	7.50
Model 150 AC Amp-Clamp, #00541	46.00

SIMPSON METER
MODEL 260-7

OUR PRICE $109.95

FEATURES

- Fast, accurate measurements of 28 time-proven ranges.
- Direct dial reading of Amp-Clamp ranges.
- External access battery and fuse compartment.
- Clip-type fuse holder and extra fuse.
- Only 2 batteries . . . one 9-volt NEDA 1604 and one 1.5-volt "D" cell NEDA 13F. Batteries supplied.
- Rugged taut band movement, varistor protected.
- Optional 5 kV slip-on safety probe.
- Multi-purpose test leads with combination probe and alligator clips.
- Large, continuous analog display for directly indicating trends and for quick, easy nulling and peaking.
- Quick, positive 'yes/no' checks for voltage, current and continuity.
- Reliable and rapid checks of semiconductor junctions and forward/reverse resistance tests.
- High-current, low-resistance range pinpoints marginal bad contacts and cold solder joints.
- Wide, dynamic, continuous resistance ranges, not limited by the number of display digits.
- Built-in wide-range —20 to +50 dB measurement facilities.
- Superior AC frequency response to 100 kHz.
- High immunity to voltage transients and RF interference—no expensive chips to wipe out.
- Does not generate RF radiation to cause interference or to trigger external sensitive circuits.
- Needs no external power, avoids common mode problems.
- Fully passive voltage, current and dB tests, independent of any internal or external power source.
- Simple design for lowest maintenance costs and highest reliability.

SPECIFICATIONS

- DC Volts: 0-0.25; 0-1; 0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000.
- AC Volts: 0-2.5; 0-10; 0-50; 0-250; 0-500; 0-1000.
- DC Microamperes: 0-50 (250 MV drop).
- DC Milliamperes: 0-1; 0-10; 0-100; 0-500.
- DC Amperes: 0-10 (250 MV drop).
- AC Amperes: Up to 250 with optional Model 150 Amp-Clamp adaptor.
- DB Scale (1 MW 600 ohm reference): —20 to +10; —6 to +22; —6 to +36; +20 to +50.
- Resistance: Rx1; Rx100; Rx10K.
- Size: 5-1/4"W x 7"L x 3-1/8"D.

ADDITIONAL MODELS

All models complete with batteries, color-coded test probe leads with screw-on clips and instruction manual.

260-7 (varistor protected meter)	$109.95
260-7M (with mirror scale)	$127.00
260-7RT (in roll top protected case)	$139.00
260-7MRT (with mirror scale, in roll top case)	$147.00
260-7P (relay overload protected)	$170.00
260-7PM (relay overload protected with mirror scale)	$178.00
260-7PRT (relay overload protected in roll top case)	$190.00
260-7PMRT (relay overload protected with mirror scale and roll top case)	$198.00
00043 extra test leads	$12.00

260 FAMILY ACCESSORIES

Accessory	For Series 3,4,5,6	For Series 7	Price
Temperature probe	00758	00758	120.25
Model No.150-2 amp-clamp adaptor	00541	00545	46.00
40 KV DC probe	00166	00411	38.00
10 KV DC probe	00034	00412	38.00
10 KV AC probe	00038	00413	38.00
5 KV DC probe	00795	00795	13.00
5 KV AC probe	00794	00794	13.00
Low power ohms probe	00735	00414	48.75
Extra test leads with screw-on clips	00125	00043	12.00
Extra probe tip leads	07536	----	7.25
Alligator clips	07500	----	8.75
Roll top case	00246	00248	30.00
Leatherette case with storage space	00549	00549	37.00
Molded top hinged case	00812	00812	35.00
Leatherette Every-Ready hard case drop front	00605	00605	35.00
Vinyl sheath case	01816	01618	30.00
Molded snap-on front dust cover	02163	02163	29.00
Model 151-2 line splitter	00544	00544	15.00

SIMPSON SOLID STATE FET VOM
MODEL 303-3XL

OUR PRICE $299.00

FEATURES

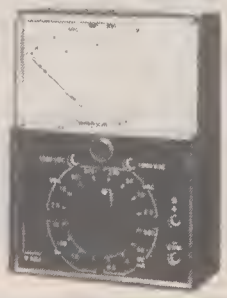
- High impact and shock resistant case.
- Zero-center scale for nulling.
- Low-power ohms for sensitivity circuitry.
- 7 ranges on normal and low-power ohms.
- Auto polarity indication.
- Rechargeable battery operation, 120 VAC or 230 VAC input.
- FET and IC circuitry.

SPECIFICATIONS

- **DC Volts:** 0 to 0.03, 0.1, 0.3, 30, 100, 300, 1000.
- **AC Volts:** 0 to 0.03, 0.1, 0.3, 30, 100, 300, 1000.
- **DC Current:** 0 to 30uA, 0 to 1, 30mA, 0 to 1, 10 amps.
- **AC Current:** 0 to 30uA, 0 to 1, 30mA, 0 to 1, 10 amps.
- **Resistance:** RX1, RX10, RX100, RX1K, RX10K, RX100K. RX1M at 10 ohms center scale.
- **Accuracy:** ±2% F.S. on DC all ranges; ±3% F.S. on AC from 50 to 100 Hz.
- **Input Impedance:** 10 megohms AC and DC.
- **Frequency Response:** Flat thru 20 kHz.
- **Size (HWD):** 7.2 x 5.5 x 3.3".
- **Weight:** 2.5 lbs.
- **Simpson Model 303-3XL FET VOM** Complete with probe, test leads, battery charger adaptor and operator's manual.

SIMPSON HANDI-VOM
MODEL 165

OUR PRICE $74.95



DESCRIPTION

The new Model 165 volt-ohm milliammeter is pocket sized, yet has full size VOM ranges, functions and features. A large, easy-to-read 3-1/4" meter with 2-color scale plus a knife-edge pointer provide excellent resolution, and 22 ranges achieve full measurement capability for AC/DC voltage, DC current, resistance and dB (5 ranges). A single switch selects all functions and ranges, except the 1000 V AC and DC ranges which are on separate input jacks. Full scale accuracy is ±3% DC and ±4° AC. Complete with color-coded probe tip test leads, ohmmeter batteries and operator's manual.

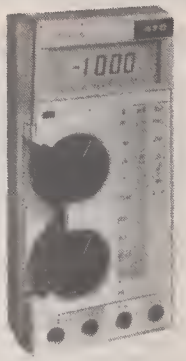
FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

SIMPSON 470™ FULL FUNCTION 3-1/2 DIGIT HAND-HELD DMM

MODEL 470-S
REG. $139.00

NEW!

OUR PRICE $124.95



FEATURES
- 26 ranges.
- Measures 100 uV to 1 kV DC, 200 uV to 750 V AC, 100 nA to 2000 mA AC/DC, 0.1 ohm to 20 Mohm.
- Professional-Grade Design and Construction.
- Full Measurement Capability—100uV to 1000 V DC, 100 uV to 750 V AC, 0.1 ohm to 19.99 Mohm, AC/DC current up to 10A.
- 0.15% DC V Accuracy.
- 0.5", High-Contrast LCD Display—with auto low-battery indication.
- Wide Temperature/Humidity Operating Range—up to +55°C at 70%, up to 90% humidity at +35°C.
- Audible Tone—for quick continuity checks.
- Diode Test—for "good-bad" semiconductor tests.
- Transient Protection—all V and ohm ranges protected to 6 kV up to 100 microseconds.
- Double Fusing System—for both low and high energy overload protection.
- Built-in Tilt Stand—for convenient bench or hanging-upright viewing.
- Anti-Skid Pads—keeps the instrument firmly in place when making measurements.
- Thumbwheel Knobs—for easy range and function selection.
- UL-Recognized Test Leads—complete with screw-on, insulated alligator clips.
- Full Line of Optional Accessories— including high-voltage, temperature and RF probes, two "universal" test lead systems, and UL-recognized Amp-Clamp adaptor.

SPECIFICATIONS
DC Voltage: 200 mV · 1000 V, **AC Voltage:** 200 mV · 750 V, **Resistance:** 200 ohm · 20 Mohm, **DC Current:** 2 mA · 10 A, **AC Current:** 2 mA · 10 A, **Dimensions:** 1.6 x 3.4 x 7.1" (45.7 x 86.4 x 180 mm), **Weight:** Approx. 1 lb. (.454 kg)

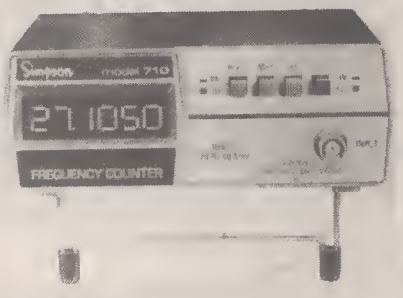
00821 DeluxeCarrying Case for 470-S$27.00 00822 Carrying Case for 470-S$20.00

SIMPSON COMPACT FREQUENCY COUNTER

MODEL 710

OUR PRICE 199.95

NEW!



FEATURES
- Covers 10 Hz to 60 mHz.
- 2 ranges Hz and mHz.
- 6 digit 0.35" LED readout, overrange indicator.
- Accurate ±1 count (±time base accuracy), standard 10 ppm time base.
- Resolves 1 Hz.
- Switchable low-pass filter eliminates input noise which would cause erroneous readings.
- Highly reliable LSI circuitry.
- Compact size, has folding bench stand.

APPLICATIONS
- CB/communications service. • Production line testing.
- Frequency monitoring. • R&D laboratory use.

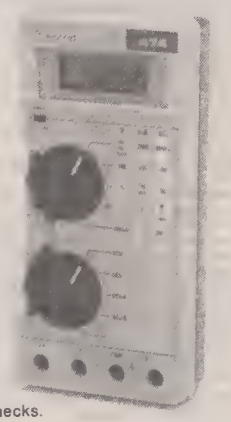
SPECIFICATIONS
Frequency Range: 10 Hz to 60 mHz. **Gate Time:** 10 msec (0.1 kHz resolution), 1 sec (1 Hz resolution). **Accuracy:** ±1 count ± time base accuracy. **Input Impedence:** 1M ohm shunted by 30 pF. **Sine Wave Sensitivity:** 50 mV rms, from 10 Hz to 50 mHz; 100 mV rms, 50 mHz to 60 mHz. **Maximum Input Voltage:** 240V peak, from 10 Hz to 100 kHz; derated to 100V peak at 1 mHz and 25V peak 60 mHz. **Frequency:** 6.5536 mHz. **Temperature Stability:** ±10 ppm maximum, 0°C to +45°C. **Aging Rate:** ±5 ppm maximum per year. **Stability with Line Voltage Variations:** ±1 ppm for ±10% line voltage variation. **Input Filter:** 3 dB at 1 mHz (low-pass). **Display:** 0.35" character height, 7-segment LED type, 6 digits. **Accessories supplied:** AC adaptor and instruction manual.

SIMPSON 474™ 4 1/2 digit Digital Multimeter

MODEL 474
REG. $219.95

NEW!

OUR PRICE $199.95



FEATURES
- 0.03% basic DC accuracy.
- 10uV, .01 ohm uA Resolution.
- 10 Amp AC/DC Current Ranges.
- Full Measurment Capability to 1000 V DC, 750 V AC, 20 M ohm, and AC/DC current to 10 A.
- 6 kV Transient Protection, 100 uses, on all V and ohm ranges.
- Double Fusing System — Low/high energy overload protection.
- High Contrast 0.4" Liquid Crystal Display.
- Wide Temperature/Humidity Operating Range — up to +55°C at 70% humidity, up to 90% humidity at +35°C.
- Audible and Visual Continuity indication.
- Diode Test — for "good-bad" semiconductor junction checks.
- Two-Way Tilt Stand — for bench use or hanging upright.
- Thumbwheel Knobs — for positive range and function selection.
- Single 9-Volt Battery — approximately one-year life with average use. Automatic low battery indication.
- High-impact Molded ABS Case — two-tone Brown or Grey.
- UL Recognized Test Leads — with screw-on, insulated alligator clips.
- Full Line of Optional Accessories - including high-voltage, temperature and RF probes, two "universal" test lead systems and UL recognized amp-clamp adaptor.

00821 Deluxe Carrying Case for 474.$27.00 00822 Carrying Case for 474.$20.00

SIMPSON FUNCTION GENERATOR

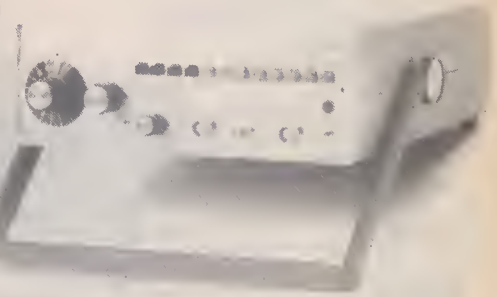
MODEL 420A 120V
For AC line operation only
REG. $205.00

NEW!

OUR PRICE $185.00

MODEL 420D 120V
For AC line and Rechargeable battery operation

OUR PRICE $220.00



FEATURES
- Provides sine, triangle, square, DC and TTL output.
- Wide 0.1 Hz to 1 mHz coverage in 7 ranges.
- Voltage-controlled generator input for sweep.
- Continuously variable DC offset with off position.
- Compact portable signal source for bench or field.
- Full day's operation on batteries, recharge overnight.

DESCRIPTION
New portable generator for audio and communications servicing, laboratory and production use.

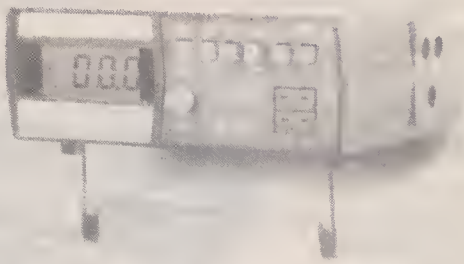
SPECIFICATIONS
Basic Outputs: Sine, triangle, square, DC and TTL (separate BNC). **Frequency Range:** 0.1 Hz to 1 mHz in 7 ranges. Amplitude: 20 V p-p open circuit (10 V p-p into 600 ohms). **Amplitude Control:** Continuously variable, greater than 30 dB; fixed attenuation, 10-30 dB. **VCG Input:** ±20 V maximum, 2K ohm input impedance. Frequency decreases from dial setting with negative voltage. **DC Offset:** Continuously variable with off position. **Dial Accuracy:** ±5% fs. **Sine Wave Distortion:** Less than 1% 10 Hz to 100 kHz, less than 2% at all other frequencies. **Triangle Wave Nonlinearity:** Less than 1% up to 100 kHz. **Square Wave Rise/Fall Time:** Less than 100 nsec into 600 ohms/20 pF. **Square Wave Non-Symmetry:** Less than 1% up to 100 kHz. **VCG Range:** Greater than 300:1 with 0 to —5 V external signal with 1000:1 capability. **TTL Output:** Fixed TTL compatible output will drive up to 10 TTL loads. Less than 25 nsec rise/fall time. **DC Offset:** Continuously variable, maximum of 10 V open circuit or ±5 V into 600 ohms (maximum V AC + V DC without clipping). Off position is provided. **Output Impedence:** 600 ohms, ±5%. **Amplitude Flatness:** ±0.1 dB up to 20 kHz, ±0.3 dB overall, sine wave. **Square Wave Aberration:** Less than 3%. **Temperature Stability (after 15 minute warm up): Frequency:** ±0.1%/C°; **Amplitude:** ±0.05 dB/°C. **Line Voltage Stability Frequency:** ±0.1% per ±10 VAC variation. **Amplitude:** ±0.05 dB per ±10 VAC variation. **Operating Temperature:** 0 to +50°C. **Power Requirements:** 120/220/240 V AC ±10%, 50/60 Hz, 6 VA. 4 "C" size nickel batteries for D version only (6 hours of operation per full charge). **Size:** 2.7"H x 8.4"D x 9.0"W. **Weight:** 420A 3 lbs., 420D 4 lbs. with batteries. (batteries not included). **Optional carrying case model #01617. . .$45.00**

SIMPSON DIGITAL TEMPERATURE TESTER

MODEL 383

NEW!

OUR PRICE $195.00



FEATURES
- Dual Inputs: Switch selectable—measure two temperature sources conveniently.
- Differential/Normal Temperature Mode: Automatically read the difference between two temperatures or each separately. Differential mode provides for easy relative humidity determinations: ideal for heating and air conditioning servicing and enviroment monitoring.
- DC Millivolt Range: For quick check of thermocouple, flame rod and other sensor outputs.
- Chart Record Output: Provides 1 mV DC per degree F or C output with low source resistance for low cost recording/controlling applications.
- Ranges: -30°F to +200°F (-34°C to +93°C); +200°F to +1200°F (+93°C to +650°C).
- Switch-Selectable Centigrade or Fahrenheit readout.
- Large, High-Contrast, 0.5" Liquid Crystal Display.
- Single 9 Volt Alkaline Battery.
- Low-Cost Humidity and Self-Cleaning Oven Accessory Kits.

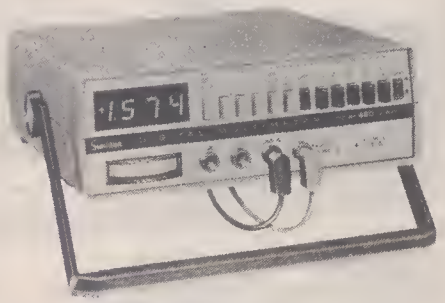
SPECIFICATIONS
TEMPERATURE FUNCION Ranges: -30°F to +200°F (-34°C to +93°C); +200°F to +1200°F (+93°C to +650°C). **Instrument Accuracy:** (at reference condition): 0.2% of reading +1°C (1.6°F) from 0°F through +1000°F; ±5°F, chart correctable from -30°F through 0°F and +1000°F through +1200°F range. **Resolution:** 0.1°F, -30°F through +200°F; 1°F, +200°F through +1200°F range. **Temperature Sensor:** Thermocouple, J-type (iron constantan), bead, 4' long. **DC MILLIVOLTS FUNCTION Range:** 0 to 199.9 V. **Accuracy:** ±(0.1 % of reading +1 count), +20°C through +30°C. **Input Resistance:** 10 megohms. **Resolution:** 10 microvolts. **Power Requirements:** Battery Type: One 9-volt "transistor" battery, alkaline (NEDA 1604A) or carbon-zinc (NEDA 1604), Battery Life: 100 hours with alkaline battery. **Dimensions:** 2"H x 5.63"W x 4.6"D (50.6 x 143 x 117 mm). **Weight:** 1.0 lbs. **Accessories supplied:** test lead set, 4" J-type temperature sensor probe, 9 V alkaline battery and operator's manual.

OPTIONAL ACCESSORIES
Extra Thermocouple Lead. J-type, 4' lead with standard plug. **Model** 00391 . . . . . $12.00
Relative Humidity Kit. Includes thermocouple lead, nomograph, wicking water dispensing items and carrying pouch. **Model** 02164 . . . . . $20.00
Carrying Case. Model 00613 . . . . . $26.75
Self-Cleaning Oven Test Kit. Includes 6 throw-away thermocouples. **Model** 00392 . . . . . $20.00

SIMPSON DELUXE DIGITAL MULTIMETER

MODEL 460A-5
OUR PRICE $395.00

MODEL 460D-5
(Batteries not included)
OUR PRICE $450.00
FOR AC LINE AND RECHARGEABLE BATTERY OPERATION



FEATURES
- 3 1/2 digit 0.43" red LED display.
- Special MOS-LSI circuitry for high reliability.
- Pushbutton selected functions and 32 ranges.
- 100 µV to 1000 V DC, 100 µV to 800 V AC, 0.1 ohm to 20 M ohm (2 low power ohms ranges), 100 nA to 10 A AC/DC.
- Automatic zeroing and polarity.
- Overload protection on all ranges.
- Analog meter for nulling, peaking, scanning trends.
- 0.1% DC V accuracy.
- Choice of nickel-cadmium battery/AC line operation, or AC line operation only.
- High-impact case with adjustable tilt-view handle.
- 120 V models are UL listed.
- Size: 2.7 X 8.4 X 9.0". Wt., 3 lbs. without batteries.

RANGES
- **DC Voltage:** 200mV, 2V, 20V, 200V, 1000V.
- **AC Voltage:** 200mV, 2V, 20V, 200V, 800V.
- **Resistance:** Low-Power—200 ohm, 2K ohm, 20K ohm, 200K ohm, 2000K ohm. Standard—2K ohm, 20K ohm, 200K ohm, 2000K ohm, 20M ohm.
- **DC Current:** 200µA, 2mA, 20mA, 200mA, 2000mA, 10A.

DESCRIPTION
Simpson's deluxe DMM offers 0.1% accuracy on DC voltage ranges. Low-power ohms ranges let you make accurate in-circuit measurements without switching on or damaging solid-state components. An auxiliary calibrated analog meter permits fast continuity checks and convenient observation for peaks or nulls. Meets the UL 1244 Standard for Safety of Electrical and Electronic Measuring and Testing Equipment, and ANSI C39.5 specs. Choose AC line power model for lowest price or AC/battery model for best flexibility. Impact-resistance case, tilt-view handle.

Complete with color-coded test leads with screw-on alligator clips, detachable AC line cord and manual.

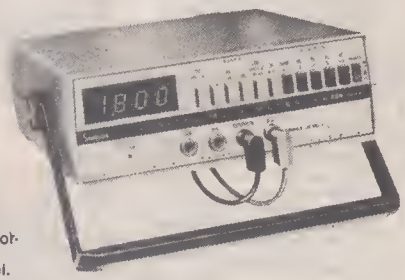
DIGITAL MULTIMETER FOR AC LINE OPERATION
MODEL 460A-5
460A-5 For 120 VAC $395.00

SIMPSON DIGITAL MULTIMETER

FOR BENCH OR PORTABLE SERVICING

MODEL 464A-3 (AC only)
OUR PRICE $304.00

MODEL 464D-3
OUR PRICE $355.00
FOR AC LINE AND RECHARGEABLE BATTERY OPERATION



Batteries not included. Complete with color-coded test leads with screw-on alligator clips, detachable AC line cord and manual.

FEATURES
- Reliable bi-polar LSI design with automatic zeroing and polarity.
- Measures 100 µV to 1 kV DC, 100 µV to 600 V AC, 0.1 ohm to 20 M ohm, 100 nA to 10 A AC/DC.
- Pushbutton selected functions and ranges.
- 0.1% DC V accuracy.
- Choice of AC line and rechargeable battery operation or AC line operation only.
- High-impact case and tilt-view adjustable handle.
- 120 V models are UL Listed.

RANGES
- **DC Voltage:** 200mV, 2V, 20V, 200V, 1000V.
- **AC Voltage:** 200mV, 2V, 20V, 200V, 600V.
- **Resistance:** 200 ohm, 2K ohm, 20K ohm, 200K ohm, 2000K ohm, 20M ohm.
- **DC Current:** 200µA, 2mA, 20mA, 200mA, 2000mA, 10A.
- **AC Current:** 200µA, 2mA, 20mA, 200mA, 2000mA, 10A.

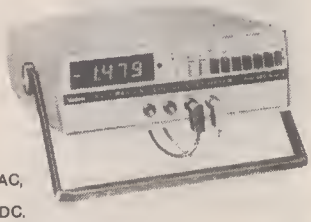
DESCRIPTION
For lab, production testing, service and maintenance where a high-quality instrument is needed but budgets are limited. LSI circuitry for stability and reliability. Meets the UL 1244 Standard for Safety of Electrical and Electronic Measuring and Testing Equipment, and ANSI C39.5 specifications. Choice of AC line power models for low cost or AC/battery power models for greater flexibility. Modern impact-resistant case tilt-view handle. 2.7 X 8.4 X 9.0". Wt., 3 lbs without batteries.

SIMPSON AUTORANGING DIGITAL MULTIMETER

MODEL 465A-3 **OUR PRICE $423.00**

MODEL 465D-3 **OUR PRICE $476.00**

FOR AC LINE AND RECHARGEABLE BATTERY OPERATION



FEATURES
- Automatic range selection.
- Range HOLD for fast repeated tests.
- 3 1/2 digit, 0.43" LED readout with autopolarity, floating decimal, zero blanking.
- Custom MOS/LSI integrated circuitry.
- Pushbutton function selection.
- Measures 100 µV to 1 kV DC, 100 µV to 600 V AC, 1 ohm to 20 M ohm (high power), 1 ohm to 2000 k ohm (low power), 100 nA to 10 A AC/DC.
- 0.1% DC V accuracy.
- High-impact shock-resistant case with tilt-view handle.
- 120 V models are UL listed.

RANGES
- **Autoranging DC Voltage:** 0.2V, 2.0V, 20V, 200V, 1000V.
- **Autoranging AC Voltage:** 0.2V, 2.0V, 20V, 200V, 600V.
- **Autoranging Resistance:** Low-Power—2K ohm, 20K ohm, 200K ohm, 2000K ohm. Standard—2K ohm, 20K ohm, 200K ohm, 2000K ohm, 20M ohm.
- **Autoranging DC Current:** 0.2mA, 2.0mA, 20mA, 0.2A, 2.0A, 10A.
- Autoranging AC Current: 0.2mA, 2.0mA, 20mA, 0.2A, 2.0A, 10A.

DESCRIPTION
This 3 1/2 digit 0.1% autoranging DMM reads out on bright 0.43" LED's with properly positioned decimal point, auto polarity and zero blanking. A special HOLD function lets you lock the range in use so you can perform repeated measurements faster. All modes are overload protected. Meets UL 1244 standards and ANSI C39.5 requirements. 2.7 X 8.4 X 9.0". Wt., 3 lbs. without batteries.

SIMPSON PORTABLE DIGITAL MULTIMETER

MODEL 360-2 **OUR PRICE $375.00**

FEATURES
- 3-1/2 digit, auto polarity, 0.43" LED display.
- 29 popular ranges including 2 'low power' ohms ranges.
- Measures AC/DC voltage, current and resistance.
- Calibrated zero-center analog meter for nulling, peaking and scanning trends.
- Analog output provisions permits monitoring input signal with chart recorder.
- Exclusive MOS/LSI circuitry provides compactness with high reliability and low-power dissipation.
- Conforms to applicable ANSI C39.5-1974 safety requirements.
- Separate battery charger and line cord.

DESCRIPTION
This versatile digital multimeter will satisfy most general test and service requirements. Special features include two ranges of low-power ohms for solid-state circuit servicing, and a calibrated zero-center analog meter for continuity checks and peaks or nulling. Calibrated analog output interfaces with a chart recorder. The battery charger removes with the line cord to minimize weight for portable use. The traditional case styling is both compact and rugged.

SPECIFICATIONS
- **Resolution** (smallest indicated unit of change): AC/DC voltage 100uV, AC current 100nA, DC current 10nA, resistance 0.1 ohm.
- **Numerical Display:** 3-1/2 digits, 7 segment, 0.43" LED.
- **Conversation Rate:** 3 readings per second.
- **Overrange Indication:** All digits flash beyond 1999 counts. Displays are within rated accuracy to 500 counts above 1999.
- **Automatic Polarity:** Automatic + or — sign displayed.
- **Analog Display:** 50-0-50uA meter.
- **Analog Output:** Level = 1 V DC at 1000 counts.
- **Normal Mode Rejection:** 35 dB min. at 60 Hz.
- **Common Mode Rejection:** With 1K ohm unbalance, 80 dB min. at 60 Hz, 100 dB min. at DC.
- **Rated Circuit-to-Ground Voltage:** (maximum common mode voltage): 1000 volts (DC plus peak AC) maximum from any measuring terminal to power line ground and/or earth ground except 50 V (DC plus peak AC) max. for 10A ranges.
- **Power Requirements:** AC operating or battery charging models for 120V AC or 240V AC ±10% 50-400 Hz.
- **Battery Operation:** 4 nickel-cadmium 'C' cells (not supplied), GE #GCT1.5SB or Eveready CH1.8 or Gould 'C' size; 1.25 V rating, 1.8 amp hours. Battery length, 1.940" max.
- **Operation Time:** (continuous with fully charged battery): 8 hours nom.
- **Recharge Time:** 18 hours, nom., switch must be in battery charge position only. Unit may be recharged while operating, 30 hours, nom.
- **Temperature:** Operating: 0°C to +50°C. Storage: —40° to +80°C.
- **Dimensions:** 2.70 x 8.40 x 9" (88.8 x 213.4 x 228.8mm).
- **Weight:** Approximately 4 lbs. (1.81kg) without batteries.

RANGES
- **DC Voltage:** 200mV, 2V, 20V, 200V, 1000V.
- **AC Voltage:** 200mV, 2V, 20V, 200V, 800V.
- **Resistance:** 200 ohm, 2K ohm, 20K ohm, 200K ohm, 2M ohm, 20M ohm.
- **DC Current:** 20uA, 200uA, 2mA, 20mA, 200mA, 2A, 10A.
- **AC Current:** 200uA, 2mA, 20mA, 200mA, 2A, 10A.

- **360-2 Digital VOM** complete with test leads, AC charger/adaptor and instruction manual (batteries not included)

For 120V AC $375.00

ACCESSORIES

Temperature Tester model 00760	$108.00
40 KV DC High Voltage Probe model 00432	54.25
RF Probe model 00433	43.75
Model 154-2 AC Amp Clamp Adaptor 12495	54.00
Extra 120V AC Adaptor/Charger model 12288	15.00
Carrying Case model 0816	43.75

SIMPSON DIGITAL MULTIMETER
MODEL 467-S
OUR PRICE $249.95

DESCRIPTION

The new Model 467 brings you the best of both worlds—a unique combination of digital and analog LCD display to analyze both steady and pulsating signals, differential '+' and '—' peak-holding capability and fast pulse detection and indication. This new, versatile instrument can actually replace the oscilloscope and the logic probe in many applications.

In the differential peak mode, the Model 467 can make percent modulation and signal tracing measurements. In the pulse detection mode it can give a visual and/or audible indication of pulse presence and logic states.

Other standard features include: True RMS measuring capability, 0.1% basic DC V accuracy, continuity detection with both visual and audible indications, high-voltage transient protection, excellent overload capability . . . meets the requirement of UL-1244 standard for safety of electrical and electronic measuring and testing equipment.

Model 467 in blue case, complete with 9V battery, test leads with screw-on alligator clips and instruction manual.

FEATURES

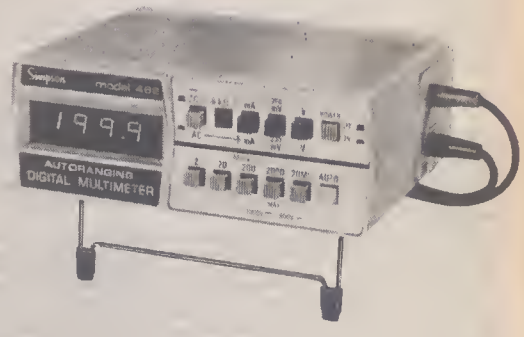
- 3-1/2 digit liquid crystal display for easy, accurate readings.
- LCD analog bargraph to indicate nulls, peaks and trends.
- Differential peak hold captures maximum (peak) and minimum values of complex waveforms.
- 50 u/sec pulse detection.
- True RMS measuring capability.
- Visual/audible indication of continuity and logic levels.
- 100 uV resolution.
- 0.1% DC volt accuracy.
- High-voltage transient protection.
- Overload protection on all ranges and functions.
- Safety-designed to meet UL-1244 requirements.
- UL-approved test leads.
- Best all-around design for benchtop, shelf or 'hands free' viewing (with neck strap carrying case).
- 100% double burn-in.
- Full line of accessories.
- Choice of blue or black case.

00043 Extra test leads with screw-on alligator clips.....$12.00
00614 Carrying case..... 29.95

DC Volts		Resistance		AC Voltage (trueRMS, accoupled)		DC Current	
Range	Maximum Indication	Range	Maximum Indication	Range	Maximum Indication	Range	Maximum Indication
200mV	± 199.9mV	200ohm	199.9ohm	200mV	199.9mV	200uA	± 199.9uA
2V	± 1.999V	2Kohm	1.999Kohm	2V	1.999V	2mA	± 1.999mA
20V	± 19.99V	20Kohm	19.99Kohm	20V	19.99V	20mA	± 19.99mA
200V	± 199.9V	200Kohm	199.9Kohm	200V	199.9V	200mA	± 199.9mA
1000V	± 1000V (max. input)	2000Kohm	1999Kohm	750V	750V (max. input)	2000mA	± 1999mA
		20Mohm	19.99Mohm				

SIMPSON COMPACT AUTORANGING DMM
MODEL 462
OUR PRICE $229.95

SPECIAL!



FEATURES

- Automatically selects the range and positions the decimal point on voltage and resistance measurements.
- Pushbutton function and manual-range selection.
- 0.25% accuracy on DC voltage ranges.
- AD converter on single LSI chip.
- Automatic polarity; bright 0.3" LED's.
- Recessed, insulated jacks on test leads.
- Operates 8 hours on a single charge. May be operated from AC line while charging.
- Measures:
  DC voltage from 100 uV to 1,000 V.
  AC voltage from 100 uV to 600 V.
  Resistance from 1.0 ohm to 20M ohm.
  Direct current from 1 uA 1,999 mA.
  Alternating current from 1 uA to 1,999 mA.
- High-impact molded case with folding stand.
- 120 V Model is UL listed.
- One-year warranty.
- Complete with nickel-cadmium batteries, 120 V AC (50-500 Hz) battery charger/adaptor, color coded test leads, alligator clip adaptors, operator's manual.
- Our popular autoranging DMM, meets UL 1244 standards and ANSI C39.5 requirements.

RANGES

- **DC Voltage:** 200mV, 2V, 20V, 200V, 1000V.
- **AC Voltage:** 200mV, 2V, 20V, 200V, 600V.
- **Resistance:** 2K ohm, 20K ohm, 200K ohm, 2000K ohm, 200M ohm.
- **AC Current:** 2mA, 20mA, 200mA, 2000mA.
- **DC Current:** 2mA, 20mA, 200mA, 2000mA.

SIMPSON COMPACT PORTABLE DMM
MODEL 461-2
OUR PRICE $199.95

FEATURES

- Both Model 461-2 and 461-2R have increased basic accuracy of 0.1% DC.
- AC voltage measurement capability up to 750 V.
- Overload protection up to 250 V on resistance measurements.
- High voltage transient protection, (6 kV, 100 us).
- Extended AC voltage frequency response. 20 Hz to 10 kHz on model 461-2, up to 50 kHz on model 461-2R.
- Reduced component count and optimal design provide for greater reliability.
- True RMS reading Model 461-2R affords accurate measurements of complex AC waveforms.
- Complete with nickel cadmium rechargeable batteries, AC charger/adaptor, safety engineered test leads, and instruction manual.

PLUS ALL THESE STANDARD SIMPSON FEATURES

- Best all-around design for benchtop, shelf or field.
- Hands-free measurements (using optional neck strap carrying case).
- Large, bright 3-1/2 digit LED display.
- 100 uV resolution.
- Overload protection on all ranges and functions.
- Safety designed to meet UL-1244 requirements.
- Double fusing system.
- 100% double burn-in.
- 1-year warranty.
- Broad line of accessories available.
- Portable compact only 2 x 5.63 x 4.6"; Weight: only 1.5 lb. with nickel cadmium batteries.
- A full 8-hour day's operation on a single charge. May be AC line operated while batteries are being charged.

RANGES

- 5 DC voltage ranges to 1 KV.
- 5 AC voltage ranges to 600 V.
- 6 resistance ranges to 20 megohms.
- 5 DC current ranges to 2 A.
- 5 AC current ranges to 2 A.

ACCESSORIES

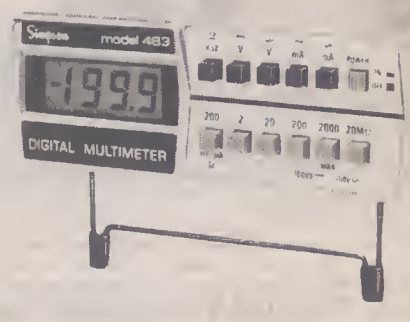
00758 Temperature probe.....$120.00
00748 RF probe..... 43.75
00749 40 kV high-voltage probe..... 54.25
153-2 AC amp-clamp adaptor..... 54.00
00614 Carrying case..... 29.95

Model 461-2, Average Sensing, complete with nickel-cadmium batteries, battery charger, adaptor, color coded test leads with alligator clip adaptors, and operator's manual.
For 120 V AC.....$199.95

Model 461-2R True RMS Sensing, complete with nickel-cadmium batteries, battery charger/adaptor, color coded test leads with alligator clip adaptors, and operator's manual.
For 120 V AC.....$246.00

SIMPSON DIGITAL MULTIMETER
MODEL 463
OUR PRICE $179.95

SPECIAL!



FEATURES

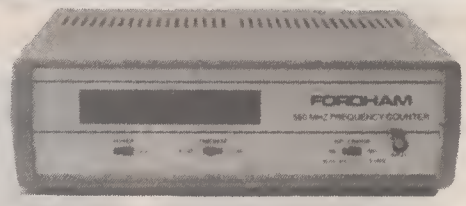
- High contrast 1/2" 7-segment 3-1/2-digit liquid crystal display. Easy viewing in daylight or roomlight.
- Up to 200-hour continuous battery operation on a 9 V alkaline "transistor" battery. No power cord or charger needed. Automatic warning indicator.
- Exceptional 0.1% accuracy on DC voltage ranges.
- Transient supression and overload protection plus all LSI circuitry for extreme reliability.
- 26 AC/DC voltage, current and resistance ranges.
- Convenient pushbutton range and function selection plus automatic polarity and zeroing.
- Compact 2 x 5.63 x 4.6". Weighs 1 lb.
- UL listed.
- One-year warranty.
- Test leads with screw-on alligator clips, instruction manual.
- Our popular compact LCD model, meets UL 1244 standards and ANSI C39.5 requirements.

RANGES

- **DC Voltage:** 200mV, 2V, 20V, 200V, 1000V.
- **AC Voltage:** 200mV, 2V, 20V, 200V, 750V.
- **Resistance:** 200 ohm, 2K ohm, 20K ohm, 200K ohm, 2M ohm, 20M ohm.
- **AC Current:** 200uA, 2mA, 20mA, 200mA, 2000mA.
- **DC Current:** 200uA, 2mA, 20mA, 200mA, 2000mA.

TEST INSTRUMENTS

FORDHAM 550 MHz FREQUENCY COUNTER



MODEL FM-8 REG. $249.95 OUR PRICE $169.95

FEATURES

• Completely assembled. • Pre-calibrated. • Pre-tested.

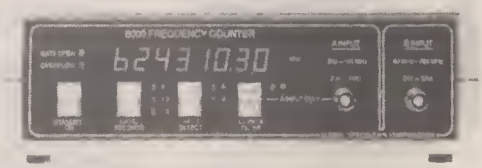
DESCRIPTION

The FM-8, 8-digit high frequency counter is easy to use, with a switch selectable input using a single BNC. Nothing to build.

SPECIFICATIONS

•5 Hz to 550 mHz. •High intensity 8-digit LED display (easy-to-read .43" high). •Crystal (±3 ppm at 25°C) controlled 0.1 or 1.0 sec. gate times. •Convenient benchtop size (7 x 10 x 3") double attractive case. •1 megohm input impedance. 5 Hz to 100 mHz. 50 ohm input impedance. 30 mHz to 550 mHz. **Sensitivity:** •Low Frequency Input:70 mV rms to 20 Hz; 20 mV rms to 25 mHz; 25 mV rms to 80 mHz; 80 mV rms to 100 mHz. •High Frequency Input: 250 mV rms—30 mHz to 40 mHz; 200 mV rms—50 mHz to 1000 mHz; 150 mV rms—100 mHz to 300 mHz; 250 mV rms—300 mHz to 500 mHz; 350 mV rms—500 mHz to 550 mHz. •Line Powered: 110 VAC 80 Hz.

GLOBAL SPECIALTIES CORP. FREQUENCY COUNTER



MODEL 6000-G REG. $425.00 OUR PRICE $369.95

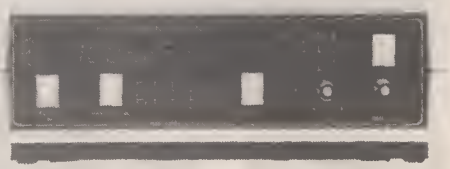
FEATURES

• 5Hz to 650MHz range. • Switchable low pass 80KHz filter. • Selectable 0.1, 1.0 and 10 sec. gate times.
• Easy-to-read 8 digit LED display. • Easy-touch push button controls. • Stream-lined ultrafunctional front panel.

DESCRIPTION

Global's New 650 MHz Frequency Counter—The Model 6000-G—offers outstanding performance and ease of operation in a value-packed instrument. The 6000-G features a trimlined front panel with optimally accessible controls, push-button operation, bright LED display and extremely accurate frequency measurement from less than 5 Hz to more than 650 MHz. The standard Model 6000-G Frequency Counter has a 3.579545 MHz temperature compensated crystal oscillator time base. This frequency counter features two front panel mounted BNC input connectors which allow greater flexibility in frequency measurement. The A input accepts signals from 5 Hz to 100 MHz with an input impedance of 1 megohm @ 25 pF. A switchable lowpass filter, with an LED indicator light, provides a 3 dB per octave rolloff at 80 KHz to facilitate audio and ultrasonic measurements. The B input is used for signals from less than 40 MHz to over 650 MHz with an input impedance of 50 ohm @ 10 pF. Selection of A or B input is via a simple push-button control with LED indicators. The 6000-G also features three switch selectable gate times, with simple push-button operation and LED indicators. This enables the user to choose gate times of 0.1 second with 10 Hz resolution, 1 second with 1 Hz resolution or 10 second with 1/10 Hz resolution. LED indicators for "GATE OPEN" and "OVERFLOW" provide additional user convenience.

GLOBAL SPECIALTIES CORP. 1 GHz FREQUENCY COUNTER



MODEL 6002 REG. $525.00 OUR PRICE $449.95

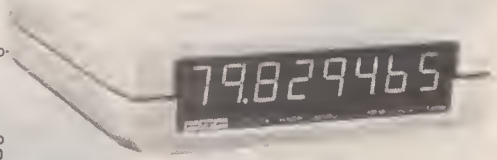
FEATURES

• Switchable low pass 80 kHz filter. • 5 Hz to 1 GHz frequency range. • Easy-touch, push-button controls.
• Measures period 100 ns to 200 ms. • Three selectable resolutions in each mode. • Easy-to-read, 8½-digit LED display.

DESCRIPTION

Bull'e eye! High Frequency, Low Price! Now, you can afford frequency measurement from 5 Hz to 1 GHz with Global's New 6002 Frequency Counter. It's our alternative to high-priced GHz counters and others that "miss the mark" by not meeting your high frequency needs. The 6002 is right on target for ALL of your frequency requirements. And we aimed to give you more. The 6002 provides the added convenience of period measurement from 100 ns to 200 ms. For "bull's-eye" accuracy, a 10 MHz crystal oven oscillator timebase assures ±0.5 ppm (10-40°C), ±1 ppm/year stability. The 6002 also ecores high on quality, performanca, and features. Two AC-coupled, BNC connectors are mountad on front panel for added flexibility. The A input accepts signals from 5 Hz to 100 MHz with 10 Hz, 1.0 Hz and 0.1 Hz resolutions and an input impedance of 1M ohm at 20 pF. A switchable low pass filter provides a 8 db/octeve roll-off at 80 kHz to facilitate audio and ultrasonic measurements. The 6002 even lete you angage a x100 multiplication mode to speed up the measurement and display of low frequencies (5 Hz to 10 kHz). The B input accepts signals from 80 MHz to 1 GHz with a 50 ohm at 10 pF input impedance and 1 kHz, 100 Hz and 10 Hz resolutions. Choose from three resiotione in the A input, B input and Period modes. Simply depress the push-button control and LED indicators confirm your selection. A clean front panel and easily accessible push-button controle allow "markemanship" operating efficiency. The easy-to-read, 8½-digit, 0.43-inch display features leading zero blanking and a contrast anhancement filter to ensure that you never mise a reading. LED indicators for "Gete Open", "Oven Ready" and "Overflow" provide additional user convenienca, and a flip-up leg allows added flexibility for benchtop use. Now, frequency measurement doesn't have to be a "shot in the dark" routina. The 6002 delivers the highly-accurate readings you need for audio, communications, data processing, RF design, digital design and quality control. With Global Specialties new 6002 Frequency Counter you get the frequency range you nead, tha performance you demand, and the quality you expect.

GLOBAL SPECIALTIES CORP. FREQUENCY COUNTER



MODEL MAX-100 REG. $115.00 OUR PRICE $99.95

The MAX-100 portable frequency counter is designed for field service, laboratory, production, communications, and monitoring applications. It features an eight-digit multifunction display. 5 Hz to 100 MHz.

SPECIFICATIONS

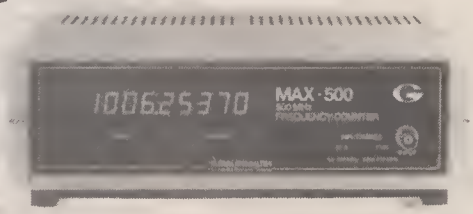
FREQUENCY CHARACTERISTICS— Range: 20 Hz to 100 mHz (guaranteed); 110 mHz typical. **Gatetime:** 1 sec. providing 1 Hz resolution throughout freq. range. **Accuracy:** +, —1 count + time basa arror. **INPUT CHARACTERISTICS—Impedence:** 1M ohm shunted by 56 pF. **Connector:** Phone jack. **Coupling:** AC. **Sine Wave Sensitivity:** 30 mV rms; 10 Hz-50 mHz; 100 mV rms, 50 mHz to 80 mHz; 300 mV rms, 80 mHz and above. **Maximum Input:** 200V peak, 20 mHz-500 Hz; 100V peak, 500 Hz-1 kHz; 75V peak,1 kHz-10 mHz; 50V peak, 10 mHz and above. **INTERNAL TIME BASE CHARACTERISTICS—Frequency:** 3.579545 mHz crystal oscillator. **Setability:** +, —3ppm at 25°C. **Trimmer Adjustment:** +, —4ppm. **Temperature Stability:** Better than 0.2ppm/°C, 0 to 50°C. **Maximum Aging Rate:** 10ppm/year. **DISPLAY CHARACTERISTICS—Display:** Eight 6" high LED digits, with anti-glare window. **Lead-Zero Blanking:** Decimal point automatically appears between sixth and seventh digit when input frequency exceeds 1 mHz. **Overflow:** When input signal exceeds 99,999,999 Hz the most significant (left hand) digit flashas, allowing user to read in excess of 100 mHz. **Display Update:** Fixed 1/6 second plus 1 second gate time. Low **Battery Indicator:** When batteries or power supply falls below 6.6 VDC, all eight displays flash at once a one Hz/Second rate. During battery operation, flashing display extends operating time of unit. **GENERAL—Power Requirements:** 6 AA alkaline of NiCad batteries (internal battery compartment). **External:** 110-220/AC battery eliminator charger; automobile cigarette lighter adaptor for both charging and operating: 7.2 to 10 VDC external power supply. **Battery Life:** Alkaline, 3 hrs. cont. use; 8 hours intermittent use. NiCad, 3 hrs. cont use, 6 hrs. intermittent use. **Battery Charging:** 12-14 hrs. required for full charge. **Size (HWD):** 1.75 x 5.63 x 7.75" (4.45 x 14.30 x 19.89cm). **Weight:** Less than 1.5 lb (0.68 kg.) with batteries. **Accessories Included:** 100 IPC clip lead input cable; detailed applications/instructions manual.

ACCESSORIES

• **100-MWA.** Mini-whip antenna. . .$9.00 • **100-LLC.** In-line RF signal tap (50 ohm). . .$20.00 • **100-CA1.** 117 VAC 60 Hz charger/adaptor. . .$12.95
• **100-CLA.** Cigarette lighter adaptor. . .$8.95 • **100-CC.** Vinyl carrying case. . .$12.95

GLOBAL SPECIALTIES CORP. FREQUENCY COUNTER

NEW! SPECIAL!



MODEL MAX-500 OUR PRICE $129.95

FEATURES

• 20 mV to 500 mV sensitivity range. • Switchable 0.1 second and 1.0 second gate times.
• Four part per million accuracy. • Switchable frequency input range of 5 Hz to 100 MHz and 30 MHz to 500 MHz.
• 8-digit LED display. • Simple and easy to operate.

DESCRIPTION

The MAX-500 was developed by Global to complete our line of frequency counters. It includes an 8-digit, 7-segment LED. This unit is a very durable and simple counter to operate. An easy-to-follow illustrated instruction manual is included.

APPLICATIONS

The MAX-500 is ideal for use by hobbyists and technicians as well as educational institutions. It has a variety of applications in that in-between range for signal processing, measuring transmitter frequencies (especially useful for Ham radio frequencies), measuring audio signals and time base calibrations.

SPECIFICATIONS

INPUT: 1 Input AC coupled BNC connector. **Impedence:** 1M ohm @ 25 pF, 5 Hz to 100 MHz; 50 ohm, 30 MHz to 500 MHz. **Response:** 5 Hz to 100 MHz, 30 MHz to 500 MHz, in 2 ranges. **Sensitivity:** Low Frequency Range: 70 mV, 5 Hz to 20 Hz; 20 mV, 20 Hz to 25 MHz; 25 mV, 25 MHz to 80 MHz; 45 mV, 80 MHz to 90 MHz; 80 mV, 90 MHz to 100 MHz. High Frequency Range: 250 mV, 20 MHz to 50 MHz; 200 mV, 50 MHz to 100 MHz: 150 mV, 100 MHz to 300 MHz; 250 mV, 300 MHz to 500 MHz. **Maximum Input:** Low Frequency Input: 70 Vrms, 5 Hz to 10 kHz; 56 Vrms, 10 kHz to 100 kHz; 12 Vrms, 100 kHz to 1 MHz; 4 V rms, 1 MHz to 10 MHz; 2 Vrms, 10 MHz to 100 MHz. **High Frequency Input:** 1 Vrms, 30 MHz to 500 MHz. **COUNT ACCURACY:** ± timebase accuracy ± 1 count. **REFERENCE: Timebase:** 3.579545 MHz crystal oscillator, ± 4 PPM from 0-50°C, aging 10 PPM/year. **Trimmer:** adjustable ± 40 PPM. **Gate Times:** 0.1s, 1.0 s switch selectable. **CONTROLS:** Power, Timebase (gate time select), Input Range. **DISPLAY:** 8-digital, 7-segment, 0.43-inch LED display; decimal indicates MHz position. **POWER:** DC power jack, 9 VDC @ 400 mA with external wall mounted AC adaptor. **Dimensions:** 3"H x 10"W x 7"D. **Weight: 2.1 lbs.**

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

GLOBAL SPECIALTIES CORP.
FUNCTION GENERATOR
MODEL 2001
REG. $169.95
OUR PRICE $139.95

FEATURES
- Sine, square, triangle and separate TTL square wave output.
- Frequency range: 1Hz-100kHz.
- Frequency sweepable over 100:1 range.
- Pushbutton range, function and DC offset selection.
- Low distortion. • Variable output to 10V P-P. • Shortproof outputs.

SPECIFICATIONS
Frequency Range: Hz to 100 kHz in five overlapping decade ranges, pushbutton selectable, with a 10:1 50-increment vernier dial: 1-10 Hz, 10-100 Hz, 100-1000 Hz, 1-10 kHz, 10-100 kHz. **Dial Accuracy:** Calibrated at 10 Hz, 100 Hz, 1 kHz and 10 kHz—frequency accurate to ±5% of dial setting. **Waveform Characteristics:** Sine wave, less than 2% THD over frequency range; triangle wave linearity, better than 1% over range; square wave rise and fall times less than 100 nsec. with 600 ohms—20 pF termination. **Time Symmetry:** Less than ±2%; TTL square wave output, constantly available, with rise and fall times less than 25 nsec. **Sweep Range:** Maximum 100:1; maximum linear range, 10:1 from either end of dial. **Sweep Input:** 0 to ±10V via banana jacks. VCO may be shifted or swept from any position of frequency dial. **Input Impedance:** 22K ohm **Main Output:** Sine, square and triangle waveforms, pushbutton selectable; HI level: .1V-10V p-p open ckt., .05V-5V p-p into 600 ohms; Lo level (—40 dB): 1-100 mV, open ckt., .5-50 mV into 600 ohms; amplitude control: variable greater than 40 dB range; amplitude flatness: less than ±.5 dB; DC offset controls; variable ±5V into open circuit; pushbutton on/off control. Maximum DC offset (AC+DC components before clipping): HI output ±10V max; Lo output ±.1V max, DC offset is independent of amplitude control setting. **TTL Square Wave Output:** 0 TTL loads, rise and fall times less than 25 nsec. **Dimensions:** (HWD) 3"x 10"x 7". **Weight:** 2.2 lbs.

GLOBAL SPECIALTIES CORP.
SCOPE MULTIPLEXER
MODEL 8001-GS
REG. $450.00
OUR PRICE $379.95

FEATURES
- New.
- Analog and digital applications.
- Broad bandwidth to 20 mHz.
- Built in calibration.
- Built in scope synchronization.
- Unique trigger circuitry.

DESCRIPTION
The 8001-GS low cost eight channel Multiplexer extends the versatility of laboratory oscilloscopes from one or two channels into an eight channel analog or digital display unit, permitting a direct comparison of events occurring simultaneously and in direct time relationship to each other.

The 8001-GS Multiplexer scans the eight BNC inputs sequentially at a user adjustable rate. The scan rate is adjustable by the front panel mounted 'Multiplexer Rate' control. The sampled waveforms are summed with an internally generated staircase waveform. After buffering, the composite signal is fed to the vertical output channel. A front panel mounted 'Gain Control' varies the output amplitude of all eight channels simultaneously. All eight traces may be selected for viewing or the user may step through each of the eight waveforms by means of a manual mode which is provided via a front panel push button. Channels 1-8, 1-4, 5-8 may be selected via a front panel control.

Display synchronization is accomplished by processing input channel #1 waveforms... selecting a threshold level between ±5 Vp-p which is adjustable over the entire signal range... selecting either the positive or negative signal slope, i.e. any point from +5V going negative to the slope selected and the trigger voltage level set, the 8001-GS generates a TTL, compatible pulse of either 0.1 sec or 1.0 usec in width (internally selectable) at the trigger output BNC. For ease of use, the 8001-GS has built-in zero calibration for referencing display channels to '0 volts' for display positioning. Zero base lines for all eight channels is obtained by depressing the 'Zero Cal' button located on the front panel.

The 8001-GS eight channel Multiplexer is a versatile diagnostic display tool for use in all phases of analog or digital systems and circuit designs, testing and troubleshooting.

SPECIFICATIONS
INPUTS: Eight. **Bandwidth:** Flat to 12 mHz, —3 dB at 30 20 mHz. **Impedance:** 1 Meg ohm at 30 pF (outside maximum input voltage range impedance drops to 10K ohms. **Input Voltage:** ±5 Vp-p; beyond specified range input signals are clipped; absolute maximum input voltage ±50 VDC (100 Vp-p). **OUTPUTS—Vertical Output:** Staircase waveform summed with 8 input signals, 0 to 350 mV. **Staircase Steps:** 50 mV/step. **Signal Voltage/Step:** Variable 0 to 75 mV. **Impedance:** 100 ohms. **Amplitude:** Minimum 2.4V open circuit. **Pulse Width:** 0.1 usec or 1 usec internally selected. **Impedance:** 100 ohms. **CONTROLS:** Sampling frequency 40 kHz to 1 mHz; Trigger threshold adjustable —5VDC to +5VDC; Trigger polarity +/— edge, switch selectable; Display select 1-8, 1-4, 5-8 traces or manual; Manual pushbutton increments display one trace at a time; Zero calibration pushbutton zeros all traces; Vertical gain adjusts signal amplitude of displayed traces. **POWER:** 105-135 VAC, 57-63 Hz (215-250 VAC, 50-60 Hz optional). **DIMENSIONS (HWD):** 4 x 10 x 7 (102 x 254 x 178mm). 5.0 lbs. (2.3kg). **OP TEMP:** 0-40°C, calibrated at 25°C ±5%.

GLOBAL SPECIALTIES CORP.
PULSE GENERATOR
MODEL 4001
REG. $265.00
OUR PRICE $239.95

FEATURES
- 0.5 Hz-5 mHz frequency range.
- Synchronous output gating.
- 100 mV-10 V position output; less than 30 nanosecond rise/fall times.
- Independent TTL-compatible output (rise-fall times less than 25 nsec.).
- Square wave output mode. • Compliment (polarity inverted) output.
- Independent pulse width and spacing controls. 10^7:1 duty cycle range.
- Continuous and manual one-shot operation. • External triggering, DC to 10 mHz.

SPECIFICATIONS
Frequency Range: 0.5 Hz to 5 mHz. **Pulse Width and Spacing Controls:** 100 nsec. —1 sec. in 7 overlapping decade ranges. Independent variable width and spacing controls. Two concentric, single turn verniers provide continuous adjustment between ranges. **Duty Cycle:** 10^7-to-1 range, continuously adjustable, 0.5 Hz-5 mHz. **Accuracy:** ±5% of control settings calibrated at min. and max. vernier settings. **Jitter:** Less than .1% +50 ps. **Operating Modes (pushbutton selectable):** Run: 0.5 Hz to 5 mHz, frequency settable thru pulse width/spacing controls; Trig: DC to approximately 10 mHz from external source; Gate: Generator starts synchronously with leading edge of gate signal—'One Shot' pushbutton can manually activate gate mode; One Shot: momentary pushbutton for single-pulse operation; pulse occurs each time button is depressed. Square Wave: square wave may be obtained at the outputs by depressing 'Sq Wave' pushbutton. Complement: outputs may be inverted by depressing the 'Compl' pushbutton, without losing sync time reference. Note: pulse spacing controls not active during Trigger, Gate and One Shot modes. **Trig/Gate Input Requirements:** TTL compatible; sine waves 2V p-p; pulses 1V peak greater than 40 nsec wide; input impedance approximately 10K ohm DC coupled; max. input ±10V. **Outputs:** Var Out: amplitude, 0.1-10V, adjustable via single turn vernier; rise/fall time. less than 30 nsec; impedance, 400 ohm max. TTL Out: fan out, 40 TTL loads; sink, 18 mA at 0.8V maximum; rise/fall time: less than 20 nsec. Sync Out: amplitude, 2.4V minimum; fan out, 10 TTL loads; sink, 18 mA at 0.8V maximum; rise/fall time, less than 20 nsec; pulse width, greater than 20 nsec; sync pulse lead time greater than 20 nsec.
Dimensions: (HWD) 3"x 10"x 7". **Weight:** 2.2 lbs.

GLOBAL SPECIALTIES CORP.
COUNTER-TIMER
MODEL 5000
REG. $500.00
OUR PRICE $425.00

FEATURES
- Measures Frequency, Period and Pulse Width.
- Unique automatic reset logic.
- Handheld.
- LCD display.
- Battery operated completely portable.
- Self diagnostic internal test mode.
- Full signal conditioning—attenuation, slope selection, AC or DC coupling, variable trigger level.

DESCRIPTION
The 5000 will measure any period from 40 nsec to 10 seconds and deliver a single cycle measurement or an average of 10, 100, or 1000 cycles. Time will be displayed in usec. Plus Width measurement from 25 nsec to 10 seconds can be made. Either the high or low portion of the input signal can be selected.

The 5000 Counter-Timer has 3 modes of operation: Frequency, Period and Pluse Width. Signal input is via BNC connector
—Input impedance is 1 megohm @ 25 pF for all modes.

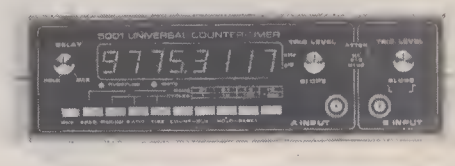
The 5000 features a unique automatic master reset logic. This time-saving reset function instantly clears the display and initiates a new measurement cycle eliminating erroneous partial measurement.

A self-diagnostic function performs analysis of internal logic and provides instant assurance of accurate operation.

Now, all of the important features and performance capabilities of a benchtop counter-timer combined with the convenience of a fully portable, battery-operated hand-held instrument. Global's new 5000 Counter-Timer is the first instrument of its type. Designed to deliver extreme accuracy and exceptional reliability, the 5000 measures a mere 7.8 x 3.75 x 1.7" and weighs in at 14 oz.

As for performance—the 5000 is designed to measure frequency, period and pulse width. It features full signal conditioning including: attenuation (x1, x10, x100); slope selection (+ or − edge for pluse width measurement); AC or DC coupling and variable trigger level.

GLOBAL SPECIALTIES CORP. UNIVERSAL COUNTER-TIMER
MODEL 5001 **REG. $399.00** **OUR PRICE $339.95**



DESCRIPTION
Designed for the electronic measurement and display of frequency, period, interval and counted events. Unique full input signal conditioning on both channels, including attenuators, slope selection and variable trigger level. Variable delay between measurements. Measurement capabilities of the 5001 suggest broad applications in industry, laboratories, education, process control and production.

SPECIFICATIONS
INPUTS: 2 inputs, A and B, DC coupled, BNC connector. **Impedance:** 1 MegOhm +25 pF. **Response:** 10 mHz max at A, 2 mHz max at B. **Sensitivity:** 20mV rms. **Controls:** x1/x10/x100 attenuators, slope select, variable trigger level. **REFERENCE:** 10 mHz crystal oscillator, ±4 ppm from 5-35°C. **MODES—Frequency:** 10 mHz max, 4 ranges with gate times of .01/0.1/1.0/10 secs, display kHz, A input only. **Period:** 400 nsec to 10 sec, 4 ranges with 1/10/100/1000 cycle average, display in microseconds, A input only. **Frequency Ratio:** 10 mHz max at A, 2 mHz max at B, 4 ranges, counts cycles at A during 1/10/100/1000 cycles at B. **Time Interval:** 200 nsec to 10 sec, 4 ranges, measurement starts with signal at A, ends on 1st/10th/100th/1000th signal at B. **Unit Count:** Max count 10^8, max freq 10 mHz, A input only, 1 range, Run button starts and displays running count or returns display to running count, Hold button freezes display while running count continues, Reset button resets count to zero. **CONTROLS:** Power, 5 mode selector switches, 4 range selector switches, Run, Hold, Reset, Display Delay, plus Trigger Level Slope Select and Attenuator in both A and B input channels. **DISPLAY:** 8-digit 7-segment 0.43-inch LED display, decimal point indicates time in microseconds, frequency in kHz; discrete LEDs indicate Overflow (counter overflow) and Gate (gate open); Delay feature varies period between measurement cycles from 75 msec to 7.5 sec with Delay control, detent position holds next measurement reading indefinitely. **POWER:** 105-135 VAC, 57-63 Hz, 10 VA maximum (215-250 VAC, 50-60 Hz version available). **DIMENSIONS (HWD):** 3 x 10 x 7" (78 x 254 x 178mm). 3.0 lbs. (1.4kg.). **OP TEMP:** 0-50°C, calibrated at 25°C ±5%. **Includes:** Instruction manual.

GLOBAL SPECIALTIES CORP. LOGIC PROBE

MODEL LP-1 REG. $29.95 OUR PRICE $24.95

FEATURES
- Compact, circuit-powered multifunction logic probe.
- Multi-family compatibility- DTL/TTL/HTL/CMOS.
- Detects pulses as short as 50 nanoseconds.
- Stretches and latches for easy pulse detection.
- 100K input impedance.
- Traces logic levels and pulses through digital circuitry.
- Instantly recognizes high, low or intermediate levels; open circuits, pulsing nodes.

DESCRIPTION
A compact, versatile design and test tool for digital applications. By simply connecting the clip leads to the circuit power supply, setting the logic family switch to the proper position (TTL/DTL or CMOS) and touching the probe tip to the IC pin in question, the LP-1 will give an instant picture of circuit conditions. Two level detector LED's (Hi for logic '1' and Lo of logic '0') and a blinking Pulse detector LED display the signal activity. One-shot, low repetition rate, narrow pulses are stretched to 1/3 second. A Pulse/Memory switch allows one shot events positive or negative transitions to be stored indefinitely. High frequency signals cause the Pulse LED to blink on and off at a 3 Hz rate. When the high frequency signals are unsymmetrical, there is an additional indication. Duty cycles less than 30% activate the Lo LED; duty cycles above 70% activate the Hi LED.

SPECIFICATIONS
Input Impedance: 100,000 ohms. **Threshold:** DTL/TTL, 2.25V ±0.15V equals 'logic 1', 0.80V ±0.01V equals 'logic 0'; HTL/CMOS, 70% of VCC equals 'logic 0', 30% of VCC equals 'logic 1'. **Minimum Detectable Pulse Width:** 50 nanoseconds. **Input Frequency:** Up to 10 mHz. **Input Overload Protection:** ±50V continuous, 117 VAC for less than 15 seconds. **Size:** 5.8"L x 1.0"W x 0.7"D. **Weight:** 3 oz. **Power required:** 30mA at 5 VDC; 40mA at 15 VDC; 38V max. with polarity reversal protection. **CSC Model LP-1 Logic Probe**—Complete.

GLOBAL TRIPLE POWER SUPPLY

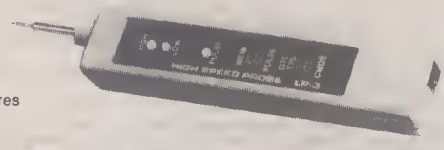
MODEL 1301-G
REG. $245.00
OUR PRICE $199.95

FEATURES
- Short circuit protected
- 5 VDC (fixed), and two variable 5 to 18 VDC outputs
- Constructed in trimline durable metal case
- Two front panel meters monitor current and voltage
- Fully regulated triple power supply

DESCRIPTION
The Global Specialties Model 1301-G Power Supply is a fully regulated triple output power source designed to meet virtually all of your DC voltage requirements. For product development, testing, quality control, servicing, and education, the Model 1301-G is an indispensable tool. This power supply is especially useful for analog and digital circuit design and offers a fixed 5 VDC output which is optimal for TTL applications.
The Model 1301-G features three completely isolated voltage supplies; a fixed 5 VDC, 1.0 A output, and two variable 5 to 18 VDC, 0.5 A outputs are available via front panel, color-coded binding posts. The V^1 and V^2 outputs are continuously variable and each has a separate voltage Adjust control. Two front panel meters allow you to monitor voltage from 0-20V and current from 0-1A; the Monitor control lets you select which of the three supplies is metered.
Current limiting protects against short circuit, and the outputs may be interconnected to increase voltage range without short circuit damage. This power supply is designed to perform with laboratory precision and delivers exceptional line and load regulation, as well as low ripple. The 1301-G delivers excellent performance at an exceptional price. If you are looking for a triple power supply to meet your voltage requirements, the 1301-G can't be beat.

GLOBAL SPECIALTIES CORP. LOGIC PROBES

MODEL LP-3
REG. $59.95
OUR PRICE $49.95

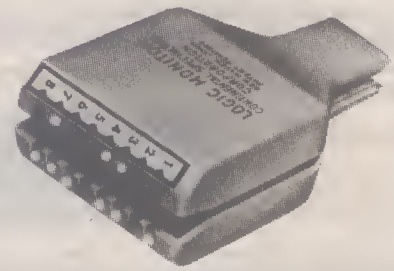


High speed logic probe captures pulses as short as 10 ns.

SPECIFICATIONS
Input Impedance: 500,000 ohms. **Minimum Detectable Pulse:** 10 ns. **Maximum Input Signal (freq):** 50 mHz. **Pulse Detector (LED):** High speed train or single event. **Pulse Memory:** Pulse or level transition detected and stored.

GLOBAL SPECIALTIES CORP. LOGIC MONITOR 1

MODEL LM-1
REG. $79.95 OUR PRICE $69.95



FEATURES
- Automatically and accurately displays static and dynamic logic states of digital IC's.
- Works with DTL, HTL, TTL and CMOS dual-inline IC's.
- Bright 16 LED display eliminates guesswork.
- Circuit-powered design eliminates hunting for power leads and worries about accidental shorts or grounding.

DESCRIPTION
Trace signals through all types of digital circuits. Unit clips over any DIP IC up to 16 pins. Each of its 16 contacts connects to a single-bit level detector that drives a high intensity, numbered LED readout activated when the applied voltage exceeds a fixed 2V threshold. Logic '1' turns LED on; logic '0' keeps LED off. A power-seeking gate network automatically locates supply leads and feeds them to the LM-1's internal circuitry. Saves minutes, even hours in design, troubleshooting, debugging of equipment.

SPECIFICATIONS
Voltage threshold: 2V ±0.2V. **Input Impedance:** 100,000 ohms. **Input Voltage Range:** 4-15V max. across any two or more input. **Current Drain:** 200mA at 10V. **Size:** 4"L x 2"W x 1.75"D. when open. **Weight:** 3 oz. **CSC Model LM-1 Logic Monitor**—Complete.

GLOBAL SPECIALTIES CORP. LOGIC PROBES

MODEL DP-1
REG. $59.95
OUR PRICE $49.95

DESCRIPTION
Completely automatic, pencil-size lab/field pulse generator. Pulse any family of digital circuits.

SPECIFICATIONS
Input Impedance: Output Tri State. **Minimum Detectable Pulse:** Auto-polarity pulse sensing. **Maximum Input Signal (freq):** Sink and source 100 mA. **Pulse Detector (LED):** Pulse Train: 100 pps. **Pulse Memory:** LED indicator flashes in single pulse. Stays at on pulse train.

GLOBAL SPECIALTIES CORP.
16 CHANNEL LOGIC MONITOR

MODEL LM-2A
REG. $175.00
OUR PRICE $148.75

DESCRIPTION
The LM-2A is a 16 channel digital test instrument specifically designed to monitor the logic states of 8, 14 and 16 pin DIP IC's.

FEATURES
- Monitors up to 16-pin DIP IC's.
- Bright LED logic state display for each pin.
- Ideal for DIP troubleshooting.
- Multi logic family compatibility.

SPECIFICATIONS
INPUT: 16 channels thru right angle header, 24" mating ribbon cable and 16-pin test clip. **Impedence:** 1.0 MegOhm. **Voltage Range:** ±26 VDC max. **VCC INPUT:** Samples Vcc of circuit under test thru case mounted connector. **Impedence:** Greater than 20K ohm. **Voltage Range:** —0.7 VDC to 20 VDC max. **THRESHOLD REFERENCES:** Threshold voltage for 16 input channels are determined by the setting of the threshold mode selector. **TTL:** 2.3 VDC ±0.1 VDC. **CMOS:** 70% Vcc ±0.2 VDC. **Variable:** Adjustable 1.0 VDC to 9.0 VDC. **CONTROLS:** Threshold mode select (TTL, CMOS, Variable), Variable threshold. **CONNECTORS:** Signal, Vcc sense, power input, threshold voltage reference test point. **DISPLAY:** 16 high intensity LED's; on when corresponding input exceeds threshold; off when input below threshold or floating. Partial intensity inductive of signal duty cycle. **POWER:** 9.3 VDC at 115 mA max. **DIMENSIONS (LWH):** 5.9 x 3.2 x 1.2 (150 x 81 x 30mm). 15 oz. (425 gm). **OP TEMP:** 0-40°C. **INCLUDES:** Instruction manual, LDA-8 Vcc Sense Cable, MMAC2 AC adaptor, LMA-8 16-Conductor input ribbon cable.

GLOBAL SPECIALTIES CORP.
40-CHANNEL LOGIC MONITOR

MODEL LM-4
REG. $250.00
OUR PRICE $212.50

FEATURES
- Easy to use.
- Bright LCD display.
- Handheld, portable.
- Multi-family compatibility.
- 40 independent input channels.

DESCRIPTION
The LM-4A is a new pocket-sized logic monitor when clipped to a 40-pin DIP, displays the static or dynamic logic status of all 40 pins simultaneously. The dual-threshold instrument can be used to monitor any device or combination of devices or up to 40 physically independent points having TTL or CMOS signal levels.

The LM-4A logic monitor has a 40-segment liquid crystal display arranged in two 20-segment rows corresponding to DIP pin numbers. Pin numbers are displayed for all points at logic state ONE, and the appropriate display segments are blanked for points at logic state ZERO.
The LM-4 will instantly and clearly display the logic states of any digital IC of up to 40 pins or any of up to 40 independent circuit points when used with its standardly supplied connector cable terminated with a 40 pin IC test clip or one of the optional multi-point universal test cables.

The LM-4A may be used to troubleshoot and diagnose microprocessors, ROM's, RAM's, and other MSI LSI chips. It can be fitted with two optional 16-pin IC test clips for comparison testing between known good IC's and IC's under test. It can also be used as a clip-on display for microcomputers and minicomputers during design and testing. An optional universal cable kit is available for special interfacing. The monitor features a high input impedance (1 MegOhm) and low power usage.

SPECIFICATIONS
INPUT: 24" ribbon cable terminated in a 40-pin Proto-Clip IC test clip. **Impedence:** 1 MegOhm at 30 pF with 24" cable. **Logic One Threshold (Switch Selectable):** TTL 2.2V ±0.2V; CMOS 70% of sampled Vcc. **Absolute Maximum Input:** +17 VDC, —10 VDC for —30 sec. **Maximum Input (Operating):** 0 to +Vcc. **Readout:** 40 segment numerical low-power, high intensity, liquid crystal display. **Power:** Reverse protected to —75 VDC. **CONTROL:** TTL/DTL—CMOS slide switch sets threshold levels corresponding to selected logic family. **POWER:** Derived from circuit under test; 4.28 VDC minimum to +15 VDC maximum; current drain (typical) 10 mA. **OP TEMP:** 0-50°C. **STORAGE TEMP:** —30°C to +80°C. **DIMENSIONS (LWH):** 5.9 x 3.2 x 1.2" (150 x 81 x 30mm) 12 oz. (336 gm). **INCLUDES:** LM-4; 24" 40-conductor ribbon cable terminated in 40-pin Proto-Clip IC Test Clip; instruction manual; high impact plastic carrying case.

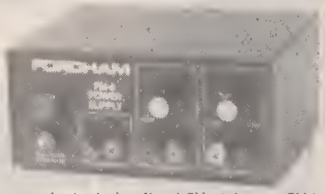
GLOBAL SPECIALTIES CORP.
HIGH SPEED ECL PROBE
MODEL LP-4
REG. $150.00

OUR PRICE $127.50

DESCRIPTION
Handles high speeds and narrow threshold differentials of emitter-coupled logic circuits. Switch for Pulse/Memory (latch) modes. Pulse LED indicates single pulses of 3 nsecs. and pulse trains of up to 100 mHz min. repetition rates. Pulse LED's indicate ± polarity when Pulse is on. Stretched 0.3 sec. LED flash for single pulse; 3 Hz continuous flash for pulse train. On Memory, LED remains on until reset, stores single pulse. Useful in detecting spurious glitches or transients. Detects input at V BB. Includes manual, 36" power ground leads with alligator clips, 1.5" probe, 3" alligator clip and hook adaptor, BNC adaptor, and 3" wire wrap pin-input and pin-ground adaptors. 3 ozs. 5.6"L x 1"W x 0.7"D.

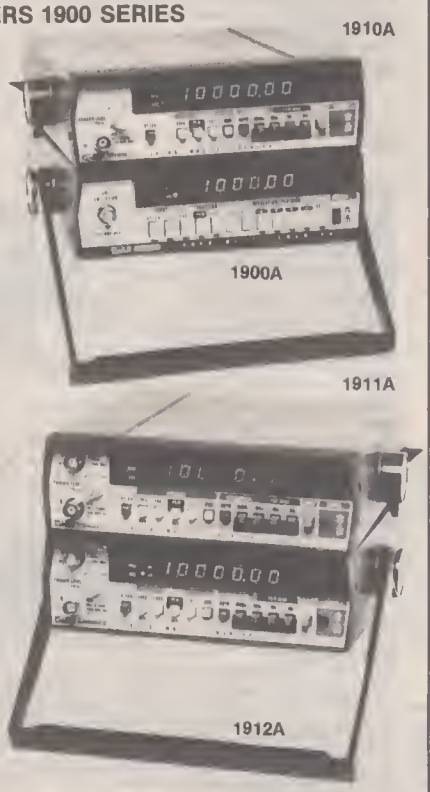
SPECIFICATIONS
- Power Required: —5.2VDC ±5% at 100 mA with overload protection from -12 to 200VDC.
- Input Impedance: Any more than 10K ohm. • Input Pulse Width: 3 nsec. min.
- Input Pulse Rate: 100 mHz min. • Operating temperature: 0 to 50°C.
- Input Overload Protection: ±100VDC cont.; ±.05V at 25°C, —1.10 ±0.100/—150 ±1.100 T A, 0 to 50°C; —5.2V for V EE.
- Typical Input Pulse Repetition Rate: 150 mHz at 50% duty cycle.

FORDHAM REGULATED TRIPLE POWER SUPPLY
Assembled and tested...and it's short circuit proof!
MODEL FM-6
REG. $149.95 OUR PRICE $89.95



SPECIFICATIONS
A fully assembled and tested triple benchtop power supply. Includes fixed 5V at 1 amp, 5V to 15V at 0.5 Amp and —5V to —15V at 0.5 AMp. All supplies regulated, short proof. Each supply has a power on indicator LED. Complete and ready for use in a durable (8 x 6 x 3-1/2") metal case.

FLUKE DIGITAL COUNTERS 1900 SERIES



DESCRIPTION
Fluke's versatile 1900-Series Multifunction Counters provide frequency, period, and totalize measurements over a wide range of applications. In the frequency mode, they verify the accuracy of signal sources such as generators, oscillators, and transmitters. Period mode measures the time duration of single input cycles, which allows fast, high resolution of low frequency measurements. In period average mode, the counter averages cycle time over 10, 100, or 1000 cycles for still finer resolution. Totalize mode is similar to frequency mode except the signal gate is opened and closed deliberately, a feature useful for totalizing the cycles in a single RF burst or counting relay contact bounce, for example. At high frequencies, where erratic triggering is most apt to cause arrangements, the 1911A and 1912A 50 ohm input channel have "automatic clean drop out"—the reading goes to zero instead of being intermittent. All models are available with an internal rechargeable battery providing at least 4 hours of operating time. Recharge time is 16 hours.

SPECIFICATIONS
Sensitivity: 25 m V rms on 1900A, 15 m V rms on 1910A, 1911A, 1912A, at 50 MHz. **Impedance:** 1 Mohms shunted by 30 pF. Additional 50 ohms input on 1911A and 1912A. **Frequency Resolution:** Four manually selected gate times provide resolution of 100 Hz to 0.1 Hz in decade steps. **Period:** 5 Hz to 1 MHz. Period-average mode provides resolution of 100 ns to 100 ps. **Timebase Aging:** ±5 x 10⁻⁷ per month **Temperature Stability:** ±5 ppm, 0°C to 50°C. **Display:** LED, leading zero suppression, annunciation, and overflow. **Autoranging:** Automatically changes range seeking to fill all digits. 20% hysteresis allows measurements to be made on signals containing large amounts of FM and phase M. **Autoreset:** Every time a front panel button is activated. **Data Output Option (-02):** Seven digits of BCD data with overflow, decimal point and units information.

Model 1900A	$395.00
Model 1900A-01 with battery	$445.00
Model 1910A	$475.00
Model 1910A-01 with battery	$595.00
Model 1911A	$575.00
Model 1911A-01 with battery	$695.00
Model 1912A	$725.00
Model 1912A-01 with battery	$835.00

GLOBAL SPECIALTIES CORP.
DIGITAL CAPACITANCE METER
MODEL 3000
REG. $124.95 OUR PRICE $112.50

NEW!

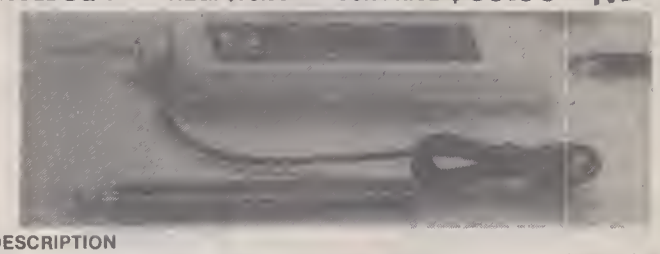
FEATURES
- Lo-Bat Indication. • Power Switch.
- Range Switches. • 3-1/2 Digit Display.
- Zero ADJ Turn-Wheel.
- Low Insertion Force Test Jacks.
- Recessed Banana Jack Input Terminals.

DESCRIPTION
The Global 3000 offers 3-1/2 digit resolution, accuracy to 0.2% of reading, capacitance measurement from 1 pF to 2000 uF, and switch selection of capacitance range. The 0.5 inch high numeric LCD display has annunciators to indicate low battery and excessive compensation of stray capacitance (- indication). A front panel Zero ADJUST control permits nulling of stray and incidental capacitance, as might be associated with a cable lead to a test fixture. Also included is a tilt stand for positioning of the unit.

APPLICATIONS
Applications for the 3000 include sorting capacitors by value, selection of precision values, checking capacitor tolerances, matching sets of capacitors, and measuring unmarked capacitors. It can be used to measure cable capacitance, cable length by capacitance, capacitance of switches and other electronic components, capacitive coupling between printed circuit faces or wires, stray capacitance, capacitance of antenna components and systems, and capacitance of networks. The 3000 also demonstrates the physics of capacitance, especially in process control and educational/instructional applications.

SPECIFICATIONS
Range: 8 ranges with full scale values from 200 pF with a resolution of 0.1 pF, 1 nF with a resolution of 1 pF, 20 nF with a resolution of 10 pF, 200 nF with 100 pF, 2uF with a 1 nF and 20 uF with 100 nF. All the ranges listed above have an accuracy of ±(0.5% + 1 dgt + 0.5 pF). Other ranges including 200 uF with a Resolution of 100 nF are accurate by ±(1.0% + 1 dgt). The eighth range is 2000 uF with a resolution of 1 nF accuracy of ±(2.0% + 1 dgt). **Power Requirements:** Single standard 9V battery. **Dimensions:** (HWD) 6.85"x 3.54"x 1.42" (174 x 90 x 36 mm). **Weight:** 340g including battery 0.75 lbs, (12 oz.). Tilt stand included for added flexibility.

GLOBAL SPECIALTIES CORP. SHORTSQUEEK
MODEL SQ-1 REG. $79.95 OUR PRICE $69.95 NEW!



DESCRIPTION
SHORTSQUEEK is a special type of ohmmeter that responds to very low values, and very small changes, of resistance. Therefore, it is an ideal tool for determining the physical location of a short circuit. It does this by taking advantage of the fact that there are varying degrees of "short circuits", the very lowest resistance occurring at the exact location of the short. Since SHORTSQUEEK can respond to very small changes in resistance it indicates, by means of an audio tone, whether its probe tip is being moved towards or away from the physical location of the short circuit. One simply moves the probe along the wire or PC board trace in the direction of the higher tone. When the pitch is the highest, the probe is at the short. If the probe is moved beyond the short, the tone will begin to drop again. Since use of the unit is so simple, it is learned very quickly.

POTENTIAL USERS
Generally, Test, Quality Assurance, Repair, and Field Service operations of the following types of firms:
- Manufacturers of all types of PC boards. • Independent electronic test and repair services.
- Manufacturers of equipment which utilize PC boards (computer electronic control systems, machine tools, process machinery, etc.)
- Manufacturers of high density wired systems (electronic backplanes, communications switching networks, etc).

SPECIFICATIONS
Power: 6 to 20 VDC, 50 mA. filtered. **Tone Shift:** 1200 to 4000 Hz, typical. **Range:** 1 ohm to 0.01 ohm, typical.

GLOBAL SPECIALTIES CORP.
3-1/2 DIGIT 0.1% DIGITAL CAPACITANCE METER
MODEL 3001
REG. $325.00

OUR PRICE $275.00

SPECIFICATIONS
Range: 9 ranges, from 1999 pF to 199.900 uF full scale. **Accuracy:** ±0.1% of reading ±1 digit ±1 pF on 7 lower ranges, ±0.5% of reading ±1 digit on 2 upper ranges determined at 23 ±5° C. **Temperature Coefficient:** ±0.01%/°C in all ranges. **Technique:** Measures T/ Vth (dual threshold slope integration). **Excitation Voltage:** 3.5 volts maximum. **Controls:** 9 position range switch power on/off switch, zero calibrate adjustment. **Zero-Calibrate Offset Adjustment Range:** Greater than 100 pF. This allows nulling of any stray or cable capacitance appearing at the input, e.g. as when cable connects unit to high volume test fixture; permits max. 16" cable. **Display:** 3-1/2 digit high brightness 0.5" character height LED. **Overrange Indication:** Display flashes at approximately 2 Hz. **Underrange Indication:** Zeroe displayed. **Input Protection:** 1/2 amp 250 volt fuse. **Input Connection:** Twin banana jacks. Mating plug-in spring tensioned Test Clips and Test Cable included. **Calibration Adjustment:** One internal range calibration adjustment. **Power Requirements:** 105-125 VAC, 50/60 Hz, 6 watts: 220-240 VAC, 50/60 Hz optional. **Operating Temperature:** 5-45°C (40-110°F). **Size (W x H x D):** 10 x 3 x 7 inches. (254 x 76 x 176mm). **Weight:** 3 lbs. (1.4 kg.).

TEST INSTRUMENTS

GLOBAL SPECIALTIES CORP. LOGIC PROBE KIT

MODEL LPK-1
REG. $29.95
OUR PRICE **$24.00**

DESCRIPTION
Build your own GSC logic probe. Easy to follow directions make this a one night project. Logic levels in a digital circuit are transulated into light from the hi or lo LED, pulses as narrow as 300 nanoseconds are stretched into blinks of the Pulse LED, triggered from either leading edge. Probe deeper into logic with the LPK-1, one of the smarter tools from GSC.

SPECIFICATIONS
Input Impedance: 300,000 ohms. **Thresholds:** LO 30% Vcc; HI 70% Vcc. **Maximum Speed:** 300 nsec., 1.5 mHz. **Input Protection:** ±50 VDC continuous, 117 VAC for 15 sec. **Power:** 30 mA at 5V, 40 mA at 15V; 25V max.; reverse voltage protected; 36" cable with color coded clips included. **Operating Temp:** 0-50°C. **Dimensions** (L x W x D): 5.6 x 1.0 x 0.7 in. (147 x 25 x 16mm). **Weight:** 3 oz. (65 gr).

GLOBAL SPECIALTIES CORP.
STANDARD LOGICAL ANALYSIS KIT

Measures To 10 MHz
MODEL LTC-1
REG. $186.95 OUR PRICE **$169.95**

HIGH SPEED LOGICAL ANALYSIS KIT

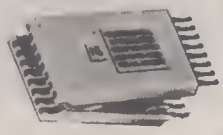
Measures To 60 MHz
MODEL LTC-2
REG. $228.90 OUR PRICE **$199.95**

DESCRIPTION
For high speed applications, you'll need our LTC-2. It captures pulses less than 10 nanoseconds, rep rates to 60 mHz. If your application is less demanding, the LTC-1 is ideal. It's good to 30 nsec and 10 mHz.

SPECIFICATIONS
LTC-1 Includes: LP-1 Logic Probe, one 3" (76mm) ground lead with alligator clip. LTC-2 Includes: LP-3 Logic Probe, two 3" (76mm) ground leads with alligator clips. Both Models include: LM-1 Logic Monitor, Digital Pulser, two 1-1/2" (36mm) probe tips, two 2-1/2" (64mm) probe tips, one 3" (76mm) 'easy-clip' adaptor for use in place of probe tip, one probe tip to 'easy-clip' converter, and one probe tip to banana plug converter, two 36" (914mm) power/ground leads with alligator clips, complete manuals for each instrument, custom-molded case. Dimensions (L x W x D): 9.1 x 7.5 x 2.25inches. (231 x 191 x 57mm). Weight: 23 ox. (652gr.).

GLOBAL SPECIALTIES CORP. PROTO CLIPS

DESCRIPTION
Wherever you use DIP's, you need GSC Proto-Clip connectors. The clip-on, short-proof way to bring up leads from crowded circuit boards, for fast signal-tracing, signal injection . . . even wiring unused circuits into existing boards. In time (and components) saved, they'll pay for themselves the very first time they're used.



PC-14 (14 pin)	PC-18 (16 pin)	PC-24 (24 pin)	PC-40 (40 pin)
$4.95	$5.95	$10.00	$14.95

GLOBAL SPECIALTIES CORP.
WIRE JUMPER KIT

MODEL WK-1
OUR PRICE **$14.95**

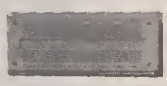
DESCRIPTION
There's no method of breadboarding that's quicker or simpler than solderless, and there's no method of solderless breadboarding that pulls it all together better. Now for added simplicity and increased design time don't strip down wires, use our Model WK-1 wire jumper kit.

Use with our Quick Test Sockets and Bus Strips, Experimentor Solderless Breadboards. Proto-Boards, Matchboard, anywhere!

Pre-cut, pre-stripped, pre-formed AWG No. 22, insulated solid hookup wire in fourteen color-coded lengths, complete with a compartmented plastic case. 25 pieces in each of fourteen lengths: 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 2.0, 3.0, 4.0 and 5.0 inches (length does not include 1/4 inch ends, stripped and bent 90°). Plastic case is divided into compartments, lid is hinged.

GLOBAL SPECIALTIES CORP.
EXPERIMENTOR SOCKETS
EXPERIMENTOR SPECIFICATIONS

EXP-650



EXP-600

Model No.	Length	Width	Center Channel	'5 Tie Pt. Terminals	Bus Strips	Our Price
EXP-325	1.9"(46mm)	2.1"(53mm)	.6"(15mm)	22(110)	2(10)	$4.00
EXP-350	3.6"(91mm)	2.1"(53mm)	.3"(6mm)	46(230)	2(40)	6.75
EXP-650	3.6"(91mm)	2.4"(61mm)	.6"(15mm)	46(230)	2(40)	8.75
EXP-4B	6.0"(152mm)	1.0"(25mm)	N/A	N/A	4(180)	4.75
EXP-300-G	6.0"(152mm)	2.1"(53mm)	.3"(8mm)	94(470)	2(60)	12.00
EXP-600	6.0"(152mm)	2.4"(61mm)	.6"(15mm)	94(470)	2(80)	14.75

GLOBAL SPECIALTIES CORP.
POWER FOR THE PROFESSIONAL

New Proto Boards PB-203 and PB-203A with built-in regulated short-proof power supplies.

DESCRIPTION
Ready to use. Just plug in and start building! 2 extra floating 5-way binding posts for external signals (PB-203 only). Completely self-contained with power switch, indicator lamp and power fuse. 24 14-pin DIP capacity. All metal construction . . . no chipping or cracking as with plastic cases. Two-tone quality case makes both PB-203 and PB-203A aesthetically, as well as technically attractive.

MODEL PB-203 REG. $149.95
OUR PRICE **$135.00**

FEATURES
• 3 QT-59S sockets. • 4 QT-59B bus strips. • 1 QT-47B bus strip. • Fuse, power switch.
• Power-on light. • 9.75"L x 6.6"W x 3.25"H. • Weight: 5 lbs. • 5V, 1 amp regulated power supply.

SPECIFICATIONS
• Output Voltage: 5V ±1/4V.
• Ripple and noise: At 1/2 amp 10 millivolts. • Load regulation: Better than 1%.

MODEL PB-203A-W (Wired)
REG. $174.00 OUR PRICE **$149.95**

FEATURES
Same as PB-203 plus
• +15V, 1/2 amp regulated power supply. • —15V, 1/2 amp regulated power supply.

SPECIFICATIONS
• Output Voltage: 15V, internally adjustable.
• Ripple and noise: At 1/4 amp, 10 millivolts. • Load regulation: Better than 1%.

GLOBAL SPECIALTIES CORP. PROTO-BOARD®
BREADBOARDING SYSTEMS

NEW!

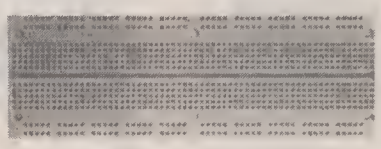
DESCRIPTION
Proto-boards are QT or UBS sockets and bus strips mounted on back plates. Circuit changes can be made in minutes by simply moving components from one place to another. Packaged systems incorporating proto-boards are easy to use, almost universally applicable, and eliminates many of the assembly procedures associated with circuit board design.

SPECIFICATIONS

	PB-102	PB-103	PB-104	PB-105
Sockets	2/QT47S	3/QT59S	4/QT59S	6/QT59S
Bus Strips	1/QT35B 3/QT47B	1/QT47B 4/QT59B	7/QT59B	4/QT47B 7/QT59B
IC Capacity	12	24	32	46
Terminals	248	450	612	912
Tie Points	1240	2250	3060	4560
Binding Posts	1	4	4	5
Backplate	Aluminum	Aluminum	Aluminum	Aluminum
Length	7.4"	9.0"	9.6"	9.2"
Width	4.5"	6.0"	8.0"	11.4"
Height	1.4"	1.4"	1.4"	1.4"
Weight	10.0 oz	21.0 oz	29.0 oz	29.0 oz
Price	$31.50	$59.95	$79.95	$99.95

GLOBAL SPECIALTIES CORP. UBS SERIES
SOLDERLESS BREADBOARDING SOCKETS

MODEL UBS-100
OUR PRICE **$17.95**



NEW!

MODEL UBS-500
OUR PRICE **$9.50**

DESCRIPTION
Start your circuit designing with Global's newest solderless breadboarding sockets. They enable you to insert your electronic components directly into a spring contact matrix, without adaptors, for instant circuit construction. All components will lead sizes from 20 to 26 gauge insert directly. Even the smallest diodes to plug-in DIP packages to 40 pins and resistors to 1/2 watt can be inserted directly into the board. All interconnections are made with solid 22 gauge wire, eliminating the need for special jumper sets.
The UBS-100 contains 64 pairs of 5 common spring contacts for principle circuit construction and 8 bus stripe of 25 common contacts for power, ground, and input/output connection, for a total of 840 contact points. A new mold and new forming die provides improved and more dependable contact. A permanent molded-in tie-point numbering system provides easy reference when constructing complex circuits. Dimensions: (LWH) 6.5"x 2.2"x .33" (16.5 x 5.6 x 0.9 cm) 6 mounting holes 1.46 " (3.7 cm) across width x 3.06" (7.8 cm) from vertical center line out to each end.
The UBS-500 has all the features of the UBS-100 in a smaller size, with 33 pairs of 5 common contact points, (totaling 430 contact points). The modest price tag makes it especially attractive for classroom use. Dimensions: (LWH) 3.4"x 2.2"x .33" (6.6 x 5.6 x 0.9 cm) 4 mounting holes 1.46" (3.7 cm) center to center.

MODEL PB-10 OUR PRICE **$19.95**
The PB-10 has one UBS-100, 840 contact point, socket permanently mounted on a compact panel. It has three rugged binding posts to facilitate power ground, or input/output connections. Its non skid rubber feet insure stability. Dimensions: (LWH): 7" x 4" x 1.3" (17.5 x 10 x 3.2 cm).

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BP LOGIC PROBE with AUDIO TONE

MODEL LP-189
REG. $39.95
OUR PRICE
$24.95

DESCRIPTION

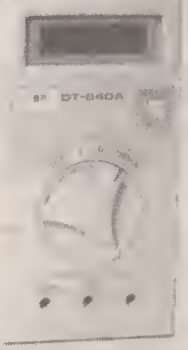
The LP-189 logic probe is e powerful troubleshooting tool, including a level detector, pulse detector, pulse memory, and audio tone which depends on what king of logic signal inputs. It is compatible with TTL, DTL, RTL, HTL, CMOS, MOS. This compact probe is easy to handle in tight spaces. Three colored LED indicators display pulse presence and high-end low-logic states. In the same time, an audio tone is also coupled with different frequency to remind user to distinguish the logic states easily. It responds to pulses as narrow as 30ns, or pulse trains over 17MHz. Compatible with most logic families, the LP-189 is an indispensable troubleshooting tool.

SPECIFICATIONS

MAX RATINGS: Max. allowable supply voltage ±20V; Max. input voltage ±50V; Free Air operating temperature 0—50°C; Operating supply voltage range TTL—5V, CMOS 5—15V **Input impedance** 1Mohm **Min. detachable pulse width** 30ns **Max. input frequency displayable** 17MHz **Logic thresholds** TTL CMOS. LOGIC 1 (red LED lights) with beeper 2.3V ± 0.2V 70%Vcc, LOGIC 0 (green LED lights) with beeper 0.8V ± 0.2V 30%Vcc **Input overvoltage protection** ±220V DC/AC 15 sec. **Pulse LED (yellow) flashing time** 500ms **Power supply protection** ±20V **Size** 205x18x18.5mm **Weight** 60 g.

UNIVOLT by BP DIGITAL MULTIMETER

MODEL DT-840A
REG. $49.95
OUR PRICE $39.95



FEATURES

- Full autoranging 3½ digit LCD. • Built-in continuity buzzer.
- Easy to read ½" digit LCD display. • Overload protection.
- Battery operated (approx. 300 hours, 2-AA size 1,5V battery).
- 0.8%, 1.35% DC V reading error. • Low battery indication.

DESCRITION

Voltage, current and resistance can be measured accurately using the BP DT-840A digital multimeter, Precision is enhanced by the high voltage sensitivities—10 megohms on all DC and AC ranges. All readings are made using ½", easy to read LCD digits. While all accurate DC measurements to 1,000 volts can be made on four ranges, four ranges accurately measure AC to 600 volts. Fuse-protected DC range is provided to enable you to make precise current measurements to 200 mA while four zener diode protected resistance settings permit accurate readings from very low resistance up to a high of 2,000K ohms. The AC voltmeter ranges, in conjunction with a shunting resistor, can be used to determine the amount of AC current flowing through a circuit. When used in conjunction with a power supply, the CP DT-840A can be used to measure capacitance and inductance. Banana jacks are provided so that low resistance contacts can be made with the plugs on the test leads supplied. Standard AA size batteries are required.

HICKOK FUNCTON GENERATOR

1 Hz to 500 kHz
MODEL 270
REG. $269.00
OUR PRICE $239.95

DESCRIPTION

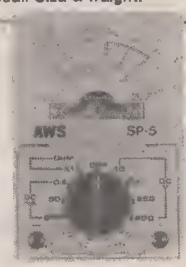
This versatile service and lab instrument — the feature packed Model 270 Function Generator — gives you much more waveform generating capability than you'd expect for its low price. This compact, precision unit puts stable, calibrated, high quality sine, square and triangle waveforms from 1 Hz to 500 kHz at your fingertips. But that's not all. With external connections you can produce logic pulses, sweeps and ramps, amplitude and frequency modulated output, phase and frequency shift keying signals, tone bursts, and a host of mixed signal output.

SPECIFICATIONS

Basic output waveforms: Sine, square, triangle.
Frequency range: 1 Hz to 1mHz* in six pushbutton-selected decade ranges. *Typical. 500 kHz guaranteed. **Frequency accuracy:** ±3% of f.s. up to 200 kHz. Amplitude Flatness: ±0.1 dB from 20 Hz to 20 kHz; ±0.3 dB from 1 Hz to 100 kHz. **Output level:** 0 to 24 volts peak-to-peak (8.5 volts RMS) open circuit — protected against short circuits. **Output impedance:** 600 ohms ±5%, constant regardless of attenuator setting. **Attenuators:** Total dynamic range of step and continuous attenuators is 80 dB minimum, step (pushbutton) attenuators provide 0 dB, —20 db and —40 dB attenuation (±0.5 dB accuracy). Continuous (Amplitude) control provides at least 40 dB additional control. DC **offset:** Output DC level on all waveforms is variable from —8 V to +8 V (at 0 dB Attenuation). **Frequency stability:** (After 1/2 hour warm-up): **With line voltage:** ±0.1% with 10% line voltage change. **With temperature:** ±0.1% per °C from 0°C to +50°C. **Sine wave distortion:** Max. total harmonic distortion (THD) is 1% from 20 Hz to 20 kHz. **Square wave rise/fall time:** 0.5 u/sec. or less. **Square wave symmetry:** (5% maximum asymmetry). **Triangle wave linearity:** (2% maximum nonlinearity) to 100 kHz. **Rear panel inputs:** AM Input, FM Input, Frequency Shift Keying (FSK) control, FSK resistor, FSK Sync (pulse/ramp control), Mixer Input. **Power required:** 105-125/210-250 VAC, 50-400 Hz, 5 watts. Includes: Rear panel connector and detailed instruction manual. **Size & weight:** 8-1/2"W x 3-1/2"H x 8"D (21.6cm x 8.9cm x 15.2cm); 4 lbs. (1.8 kg.)

A.W. SPERRY POCKET-SIZE MULTIMETER

MODEL SP-5
OUR PRICE $9.95



FEATURES

- Diode Protected Meter Movement. • Easy-to-Read Mirror Scale.
- High Impact Thermoplastic Case.

SPECIFICATIONS

RANGES: DC Voltage: 0-10/50/250/500 Vdc **AC Voltage:** 0-10/50/250/500 Vac **DC Current:** 0-0.5/50/250 mAdc **Resistance:** 0-1Mohm (5Kohm mid-scale) **Decibels:** -20 to +56 DB (on ACV ranges) **Sensitivity:** 2Kohm/V AC/DC **Accuracy:** ±4% F.S. (DCV,DCA) ±4% Arc Length (ohm) 5% F.S. (ACV) **Power Source:** One (1) 1.5V AA size battery AWS Part NO. B-1 **Size:** 3.5"L X 2.4"W X 1.3"D **Weight:** 3.7 oz.

A.W. SPERRY AUTORANGING DIGITAL PROBE MULTIMETER

MODEL DM-6590
OUR PRICE $49.95

FEATURES

- Autoranging in AC and Dc Volts and Manual Range Selection; Normal Power and Low Power Ohms.
- Custom designed 3½ digit LSI/LCD Display, with large 10mm (.4") high digits for easy, accurate readings. Includes Function Indication.
- Easy to understand Front Panel. • Flashing Overrange Indication.
- Comes ready to use with Test Lead, Batteries, and Insulated Alligator Clip.
- Advanced Circuitry Design and Engineering. • Handy pocket-size.
- Data Hold freezes readings. • Auto Polarity (-) sign when minus.
- 200 hours continuous operation (with 1107 SO batteries.)
- Low Battery Indicator ("BATT"). • Shock resistant ABS Plastic Housing. • Continuity Buzzer.

SPECIFICATIONS

DISPLAY Numerical Display: 3½ Digit, maximum reading 1999. **Unit & Sign:** V, Kohm, Continuity Test, BATT, AC, DC, —. **Range Selection:** Auto ranging on VOLT & OHM. **Polarity:** Auto polarity, (—) minus sign when minus. **Zero Adjustment:** Autozeroing. **Overrange Indication:** MSC "1" Blinks. **Battery Warning:** BATT sign shows. **Sampling Rate:** Two (2) times per second. **Power Consumption:** 3mW typically. **Power Supply:** Two (2) AWS B-6 batteries, 1.5V Button Type. (NEDA No. 1166A or 1107 SO). **Battery Life:** 200 hrs. cont. operation with 1107 SO batteries **Accuracy Coefficient:** Add 0.04% per deg. C to applicable Accuracy spec. for 0-18°C and 28-40°C. **Operating Temperature:** 32°F to 104°F (0°C to +40°C). **Operating Humidity:** Below 80%. **Storage Temperature:** —4°F to +140°F (—20°C to +60°C). **Buzzer Continuity Test:** Visual and audible indication at slightly less than 1.5Kohm to 15Kohm. Response Time, approx. 1m sec. **Data Hold:** Reading can be held on V & ohm by DH Pushbutton Switch. **Buzzer Warning Signal-Function Keyswitch Warning:** Buzzer sounds when Function (AC/DC) Keyswitch is depressed. **Volt Range Warning:** Buzzer sounds when range is going up on Volts. **Dimensions:** 6.4"L (including test prod in housing) X 1.1"W X 0.75"D (including mode switch tab). **Weight:** 1.9 oz (54.5g) Instrument Only. With Batteries, Carrying Case, Instrument, Test Lead and Detachable Alligator Clip, 3.4 oz (95g)

DRACON LINEMAN'S TEST SET

MODEL TS-21

FEATURES

- Choice of Touch Tone or Rotary Dial Output.
- Totally Line-powered.
- L.E.D. Polarity indication.
- Optional Features and Cords are available.

DESCRIPTION

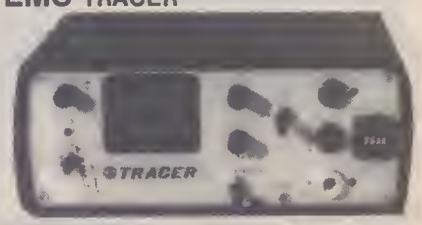
The TS-21 Lineman's Test Set employs the latest in integrated circuit design to provide either a DTMF (touch tone) or a dial pulse output with just the flip of a switch. This unique butt-in test set offers many features including totally line-powered operation with two LED's for positive and instant tip/ring polarity indication. However the TS-21 works even if the polarity is reversed. There is a Talk/Monitor switch for establishing an off hook condition for dialing and talking or line-monitoring without disrupting conversation, data or signaling.
The TS-21 butt-in test set is a standard in many telephone companies and offers these optional models:

- Mute Switch. This momentary push button when depressed shorts the transmitter and all sidetones to the receiver are eliminated.
- Multi-Purpose Cords for central office application. • Ground start Models are also available.

Model 21800-02 Standard TS-21 Test Set with 5 foot cord and 2 alligator clips.....**$249.95**
Model 21800-021 TS-21 Test Set with Mute Switch. 5 foot cord and 2 alligator clips...**$269.95**
Model 21800-027 TS-21 with mute button and ground start button with a 5 foot, three conductor cord and alligator clips.....**$299.95**

NON-LINEAR SYSTEMS TRACER

MODEL TR-1
REG. $645.00
OUR PRICE $549.95
MODEL TR-1B
With Batteries & Charger
REG. $795.00
OUR PRICE $675.00



DESCRIPTION

The NLS Tracer does it all! It can trouble-shoot any kind of circuit, whether resistive, capacitive, inductive or a semiconductor junction. Noise, intermittent problems, temperature aberrations, leakage or wrong values are all shown by the NLS Tracer.

FEATURES

- Dual-input switching for instant good/bad circuit comparison.
- 'Cold' testing function for testing of circuit boards to component level without power-up.
- Extremely stable electrical design that requires no controls for synchronization.
- In-circuit and out-of-circuit testing of circuit components and networks.
- One-volt/division and 10-volts/division calibration for sensitivity.
- A self-test capability enabling operator to check if the unit is functioning and is in calibration.
- A low-battery indicator is provided when the power indicator lamp extinguishes with the power switch in the 'ON' position.

SPECIFICATIONS

- Vertical Position Control: Moves the CRT display up and down.
- Comparator Rate Control: Controls the auto-switching rate between channel A and B.
- Horizontal Position Control: Moves the CRT display right and left.
- Channel Selector: Switches the test signal to channel A, channel B, or auto-switching in the A/B mode.
- Channel A: 2 kHz sine wave test signal output.
- Common: The common for the test signal output.
- Channel B: 2 kHz sine wave test signal output.
- Fuse Protection: Protects against accidental voltage injection from external circuitry.
- Calibration Test Jack: Permits self-calibration reference pattern for trouble-shooting.
- Hi-Lo Range Selector: Changes the amplitude of the test voltage (Lo-5Vp-p, Hi-50Vp-p).
- Retractable Stand: Permits easy, table-top viewing.
- Vector Graticule: Permits rapid and easy evaluation of the CRT display.
- Power Switch: Turns the NLS Tracer on and off.
- Intensity Control: Adjusts the intensity of the CRT display.
- Astigmatism Control: Adjusts the peripheral focus of the CRT display.
- Charger Input Jack: 10V rms power input from 115 VAC or 220 VAC.
- Focus Control: Adjusts the central focus of the CRT display.

TEST INSTRUMENTS

NON-LINEAR SYSTEMS
PORTABLE OSCILLOSCOPES
15 MHz TRIGGERED MINISCOPE

MODEL MS-15
REG. $466.00 OUR PRICE **$379.95**

15 MHz DUAL TRACE TRIGGERED MINISCOPE

MODEL MS-215
REG. $596.00 OUR PRICE **$479.95**

MS-15

MS-215

SPECIFICATIONS

VERTICAL
- Bandwidth: DC to 15 mHz, ±6 dB at 1 division deflection. Typical 3 dB point is 8 mHz at 2 division deflection. Typicel meximum frequency for full scale (4 div) deflection is 2 mHz.
- Coupling: AC, DC or ground switch eelectable. Low frequency 3 dB point on AC is 3 Hz.
- Rise Time: Approximately 23 nSec at 1 division deflection.
- Deflection Factor: 10 mV/div to 50 V/div. In 12 calibrated ranges. Accuracy is 3% of full scale with vernier in full clockwise position.
- Input Impedance: 1 megohm in parellel with 50 pF.
- Meximum Input Voltage: 350 (DC and peak AC) provided DC component does not exceed 250V.

HORIZONTAL
- Mode: Internal time base or external horizontal, ewitch selecteble.
- Time Base: 0.1 uSec/div to 0.5 Sec/div in 21 calibrated ranges. Accuracy is 3% FS with vernier in full clockwise position.
- Dual Trace: 2-channel; separate, chopped or alternete modes.
- External end internel trigger.
- Amplifier Bandwidth: DC to 200 kHz (±3 dB).
- Coupling: MS-15—DC. MS-215—AC, DC or ground, switch selecteble; low frequency point on AC is 3 Hz.
- Deflection Fector: MS-15—Approximately 1 V/div. MS-215—10 mV/div uncalibreted.
- Input Impedance: 1M in parallel with 50 pF.
- Maximum Input Voltaga: MS-15—100V (DC and peak AC). MS-215—Same es verticel amplifier.

TRIGGER
- Modes: Internal, external and line (line not functional when instrument operates on batteries). Input impedance is 1M ohm on external trigger.
- Slope: +or—, switch selectabla.
- Coupling: MS-15—DC; MS-215—AC.
- Sensitivity: Less than 1 div for internal trigger and less then 1 volt for external trigger.
- Level: Trigger level control permits continuous adjustment of trigger point.

CALIBRATOR
- A square-weve signel of 1 volt p-p is provided. Voltage accuracy is ± 5%, frequency is approximataly 12 kHz for the MS-15 and approximetely 1 kHz for the MS-215.

DISPLAY
- Greticule: 4 x 5 div, each division is 0.25 inch.
- CRT: Bluish-white phosphor, medium persistance. CRT uses low power filament for low battery drain.

ENVIRONMENT
- Operating Temperature: 0° to 40°C.

FURNISHED ACCESSORIES

MS-15: Shielded input cabla with BNC connectors and alligator clips, four mini-banana plugs and plug-in transformar (battary chargar).

MS-215: Two shielded input cables with BNC connectors and alligators clips, three mini-banana plugs and plug-in transformer (battary charger). All models include rachargeable batteries and charger.

Model 41-140 Leather Cesa **$45.00**
Model 41-141 10:1 Proba **30.00**

NON-LINEAR SYSTEMS
30 MHz DUAL TRACE TRIGGERED MINISCOPE

MODEL MS-230
REG. $779.00 OUR PRICE **$639.95**

SPECIFICATIONS

VERTICAL
- Mode: CH 1, CH 2, CH 1 & CH 2 (chopped) & CH 1 & CH 2 (alternate). (The following specifications epply to each channel.)
- Bandwidth: DC to 30 mHz, ±3 dB at 3 division deflection.
- Coupling: AC, DC or ground, switch selectable. Low frequency 3 dB point on AC is 3 Hz.
- Rise Time: Approximately 10 nSec at 3 division deflection.
- Deflection Factor: 10 mV/div to 50V/div in 12 calibrated ranges. Accuracy is 3% of full scale with vernier in full clockwise position. Vernier provides continuously variabla deflection factor between fixed ranges, uncalibrated.
- Input Impedance: 1 megohm in parallel with 50 pF.
- Maximum Input Voltage: 250V (DC and peak AC).

HORIZONTAL
- Mode: Internal time base or external horizontal, switch selectable. In the XY mode, vertical input is through CH 1 end horizontal input through CH 2.
- Time Base: 0.05 uSec/div to 0.2 Sec/div in 21 calibrated ranges. Accuracy is 3% of full scale range with vernier in full clockwise position. Vernier provides continuously variable settings between fixed ranges, uncalibrated.
- Amplifier Bandwidth: DC to 1 mHz (±3 dB).
- Coupling: AC, DC or ground, switch selectable. Low frequency point on AC is 3 Hz.
- Deflection Factor: 10 mV/div to 50 V/div in 12 calibreted ranges. The ranges can be calibrated with the CH 2 gain control.
- Input Impedance: 1M ohm in parallel with 50 pF.
- Maximum Input Voltage: 250V (DC and peak AC.)

TRIGGER
- Modes: Automatic (trigger is disabled, time base free runs). Internel (in the dual trace modes, the internal trigger source is CH 1). External and line (line not functional when MS-230 operates on batteries). Input impedance is 1 megohm on external trigger.
- Slope: +or—, switch selectable.
- Coupling: AC.
- Sensitivity: Less than 1 div for internal trigger and less than 1 volt for external trigger.
- Level: Trigger level control permits continuous adjustment of trigger point in all modes except Auto.

FURNISHED ACCESSORIES

MS-230: Two shielded input cables with BNC connectors and alligators clips, three mini-banana plugs and plug-in transformer (battery cherger). All models include rechargeeble batteries and charger.

Model 41-180 Leather Cese **$45.00**
Model 41-141 10:1 Probe **30.00**

NON-LINEAR SYSTEMS
THE DYNATRACER

MODEL DT-1
REG. $150.00
OUR PRICE **$135.00**

DESCRIPTION

Produces signature patterns for dynamic troubleshooting of solid-state circuitry and components — both in and out of circuit, with no external power applied. A working partner for your oscilloscope.

FEATURES
- Designed for use with any oscilloscope cable of X-Y mode of operation.
- Ideal for component and circuit testing, through visual comparisons of signature pattarns.
- Provides for normal scope input operation of DT-1/scope input operation by switching arrangement.
- Three impedance ranges: Lo, medium, high.
- Troubleshooting and production test applications.
- Tests and visually detacts faulty IC's, diodes, bridge rectifiers, zeners, FET's, Darlington's, LED's voltage regulators, transistors, capacitors, unijunctions, SCR's, & triacs as well as opens and shorts.
- Complete with BNC to BNC cables for attachmant to scope plus test lead assembly and component test adaptor.

NON-LINEAR SYSTEMS
THE TOUCH/TEST 20 MULTIMETER

A Truly Remarkable Test Lab in a Three-pound Package.

MODEL TT-20
REG. $495.00 OUR PRICE **$420.75**

MODEL TT-20B with batteries and charger
REG. $537.00 OUR PRICE **$456.45**

Now Available

MODEL TT-21 with LCD readout
REG. $553.00 OUR PRICE **$470.00**

MODEL TT-21B with LCD readout, batterias and charger
REG. $595.00 OUR PRICE **$505.75**

FEATURES
- Touch selection and control of functions, renges and power.
- Large (0.55" high) LED readout.
- Automatic polarity and overload indication.
- In-circuit test capabilities.
- LED indication of function in use.
- Rechargeable-battery or line-operation models.
- Test leads, temperature probe and resistor/capacitor test adaptor.
- Size: 2.9"H x 6.4"W x 7.5"D.
- Weight: Less than 3.0 lbs (without batteries).
- Parts and labor guaranteed for one year.

SPECIFICATIONS

VOLTAGE MEASUREMENTS
- AC volts and AC millivolts: Each function has threa ranges; measurements from 10 microvolts to 750 VRMS.
- DC volts and DC millivolts: Each function has three ranges; measurements from 10 microvolts to 1000 VDC.

TEMPERATURE MEASUREMENTS
- Degrees Celsius & Fahrenheit: Two renges; measurements from —40° to + 150°C or —40° to +302°F.

CONDUCTANCE MEASUREMENTS
- Measurements from 0.01 nanosiemens to 1,999 nanosiemens which is equivelent to: from 5 megohms to 100,000 megohms.

CAPACITANCE MEASUREMENTS
- Microfarads, nanofarads end picofarads: six ranges combined; measurements from 1.0 picofarad to 200 microfarads.

CURRENT MEASUREMENTS
- AC amperes and AC milliamperes: Four ranges; measurements from 10 microamperes to 10 amperes.
- DC ampares, DC milliamperes and DC microamperes: Seven ranges combined; measurements from 0.01 microamperes to 10 amperes.

RESISTANCE MEASUREMENTS
- Megohms, kilohms end ohms: Seven ranges combined; measurements from 10 milliohms to 20 megohms.

OTHER TESTS
- Diode Test: A simple quantitative means of checking diode and transistor junctions in both conduction and non-conducting directions.
- Continuity Test: Provides capability for audibility checking conductors and solder joints for shorts and open circuits, plus a go-no-go measurement of the amount of resistance from 10 milliohms to 2000 ohms.

ACCURACY SPECIFICATIONS
- DC Voltage: DC volts and DC millivolts ±(0.2% of reading +1 digit).
- AC Voltege: AC volts and AC millivolts ±(0.5% of reading +2 digits) —50 Hz to 10 kHz.
- DC Current: DC amps, DC milliamps and DC microamps ±(1% of reading +1 digit).
- AC Current: AC amps and AC milliamps ±(1.5% of reading +2 digits)—50 Hz to 10 kHz.
- Temperatura: °C and °F ±(3°C from —40°C to +150°C).
- Resistance: Ohms, kilohms and megohms ±(0.25% of reading +1 digit)
  Test Current: 100 nA, 10 uA and 1 mA.
  Test Voltage: 0.2V max. at FS up to 2 magohms.
- Conductanca: Nanosiemens ±(0.2% of reading +2 digits).
- Capacitance: Microfarad, nanofarad and picofarad ±(1% of full scale).
- Diode Test: ±(0.2% of reading +1 digit).
  Test Current: 1 mA ±2%. Temperature range for above accuracy specifications is from + 18°C to +28°C (some offset adjustments may be required). Instrument operating temperature range: 0°C to +45°C.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

A.P. PRODUCTS POWER SUPPLIES WITH BREADBOARDS

All models below feature: 1680 solderless, plug-in tie points . . . will hold up to 18 14-DIPs; Breadboard elements accept all DIP sizes including RTL, DTL, TTL and CMOS devices, TO-5's and discretes with leads up to .032" dia.; All connections to/from switches, indicators, power supplies and meters are made via solderless, plug-in, tie-point blocks on control panels; Interconnect with any solid 20 to 30 AWG wire; Breadboard elements are mounted on ground planes . . . ideal for high-frequency and high-speed/low-noise circuits; Short-circuit-proof fused power supplies; Operate on 110 to 130VAC at 80 Hz; Space-age compact styling and high-grade components permit convenient, organized and quick prototyping. All three models are 7-1/2" (19.05cm) wide, 11-1/2" (29.21cm) deep and 4.0" (10.16cm) high at rear but only 3/4" (1.9cm) high at the front for working level convenience. Weight is 2-1/2 lbs. (1.13kg).

MODEL 101

A.P. PRODUCTS TRIPLE-OUTPUT POWER SUPPLY

For Prototyping Both Linear And Digital Circuits

MODEL 101-AP

OUR PRICE $119.95

Power supply is regulated and adjustable from +5 to +15VDC at 600mA. Ripple/noise is less than 10mV at full load. Line and load regulation is less than 3%. Meter is built in 0-15VDC. Inputs are accessible at tie-point blocks on control panel which allows monitoring of power supply or circuits. Meter accuracy is 5% of full scale.

MODEL 102

A.P. PRODUCTS GENERAL PURPOSE POWER SUPPLY

The complete digital prototyping lab with *FREE* logic probe built in!

MODEL 102-AP

OUR PRICE $165.00

Power supply is regulated +5VDC at 1 amp. Ripple/noise is less than 10mV at full load. Line and load regulation is less than 1%. Pulse Detection with memory is built in. Will detect positive or negative going pulses as short as 10 nanoseconds. Memory is reset by momentary switch on control panel. Three logic indicators (LED's) have buffered inputs that require 1 microamp max. Two logic switches, momentary, with debounce circuitry. Both Q and Q outputs can sink 15mA and source 5mA. Four data switches with logic 1 or logic 0 outputs have unlimited sinking capabilities and can source 10mA. Clock generator has the following frequencies available: 1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz with a 50% duty cycle. C output will sink 15mA and source 5mA. C output will sink or source 50mA. One-shot pulse generator has output of 7ms pulse, positive or negative going. Both O and O outputs can sink 15mA and source 400 microamps.

MODEL 103

A.P. PRODUCTS GENERAL PURPOSE POWER SUPPLY

Triple-output power supply for prototyping both linear and digital circuits.

MODEL 103-AP

OUR PRICE $165.00

Triple-output power supply has outputs of: +5VDC at 750mA; +15VDC at 250mA; and —15VDC at 250mA. Ripple/noise is less than 10mV at full load for all outputs. Line and load regulation is less than 1% for all outputs. ±15-volt outputs track. Meter is built in 15-0 15VDC. Input is accessible at tie-point block on control panel which allows monitoring power supplies or circuits. Meter accuracy is 5% of full scale. Two logic indicators (LED's) have buffered inputs that require 1 microamp max. Two logic switches, momentary, with debounce circuitry. Both O and O outputs can sink 15mA, and source 5mA. Two data switches with logic 1 and logic 0 outputs have unlimited sinking capabilities and can source 10mA.

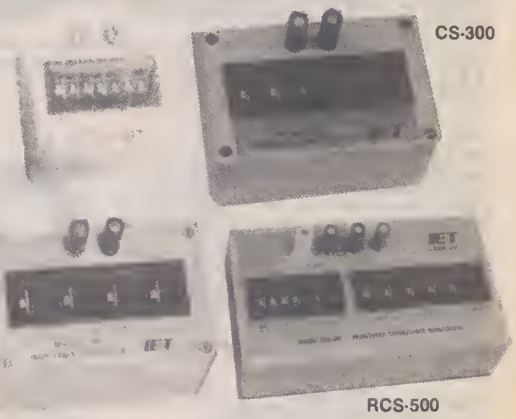
IET DIGITAL SUBSTITUTERS

DESCRIPTION

Digital substituters for resistance, capacitance, inductance. Economical, indispensible tools for a variety of uses in engineering, design, troubleshooting, or service.

FEATURES

- Direct reading — no fumbling with multiple slide or rotary switches. The IET family of digital substituters uses convenient side by side thumbwheel switches. Simply dial in the desired value and use.
- Wide range. Resistance from 1 ohm to 9,999,999 ohms, capacitance from 100 pF to 99.9999uF, and inductance from 1 mH to 9.999 H.
- Accurate. Resistors are 1% tolerance, capacitors are 4% tolerance, and inductors are 2% tolerance. Precision models are also available.
- Error proof. Since the impedance values are set and read directly, no mistakes can be made as with rotary or slide switch decade boxes. No need to examine and sum groups of switches — simply read one number.
- Color coded. Different colored switches separate the various impedance ranges.
- Compact, convenient, and rugged. Made of high impact plastic, these substituters are very portable and reduce clutter on a busy lab bench.
- Options: Shielded case with grounding post, Panel mounted versions, Special combinations and configurations.



RS-200 CS-300 LS-400 RCS-500

Model	Type Of Substituter	Number Decades	Range	Accuracy	Type Of Components	Rating	Residual Impedance	Dimensions	Weight	Our Price
RS-200	Resistance	7	1 ohm-9,999,999 ohm	1%	Metal film resistors	0.5 watt	0.3 ohm	3.2 x 3.1 x 2.2" (8.1 x 7.9 x 5.8mm)	6.5 oz. (184g)	$119.95
RS-201	Precision Resistance	7	1 ohm 9,999,999 ohm	0.1%	Metal film resistors	0.5 watt	0.3 ohm	3.2 x 3.1 x 2.2" (8.1 x 7.9 x 5.8mm)	8.5 oz. (184g)	239.95
CS-300	Capacitance	6	100pF-99.9999uF	4%	100pF: Mica .001uF: Polystyrene .01uF: Polycarbonate 1uF: Polycarbonate 1uF: Stacked film Polyester 10uF: Tantalum	100 volts (20 volts for 10-100 uF scale)	30pF	4.7 x 3.1 x 2.2" (12 x 7.9 x 5.6cm)	8.3 oz. (235g)	129.95
CS-301	Precision Capacitance	6	100pF-99.9999uF	1%	100pF: Mica .001uF: Polystyrene .01uF: Polycarbonate 1uF: Polycarbonate 1uF: Stacked film Polyester 10uF: Tantalum	100 volts (20 volts for 10-100 uF scale)	30pF	4.7 x 3.1 x 2.2" (12 x 7.9 x 5.6cm)	8.3 oz. (235g)	259.95
RCS-500 RCS-502	Resistance-Capacitance	*	*	*	*	*	*	7.4 x 4.3 x 2.4" (18.8 x 11 x 8cm)	14.5 oz. (411g)	239.95 479.00
LS-400	Wide range Inductance	4	1mHz-9.999Hz	2%	Toroidal Inductors	---	0.2 ohm	4.7 x 3.1 x 2.2" (12 x 7.9 x 5.8cm)	8.7 oz. (247g)	479.00
LS-400A	Inductance	3	1mHz-999mHz	2%	Toroidal Inductors	---	0.2 ohm	4.7 x 3.1 x 2.2" (12 x 7.9 x 5.6cm)	7.9 oz. (223g)	359.00

* Model RCS-500 combines the features and specifications of the RS-200 and the CS-300.
Model RCS-502 combines the features and specifications of the RS-201 and the CS-301.

TEST INSTRUMENTS

TPI PROFESSIONAL TEST LEAD SET
MODEL TLS-2000

OUR PRICE **$24.95**

FEATURES
- Safety engineered.
- High voltage rating.
- Burn resistant highly flexible cable.

SPECIFICATIONS
Maximum Voltage: 2000 V RMS. **Maximum Current:** 20 A. **Plug Type:** 4 mm; fits standard banana jacks; retractable safety sleeve. **Cable Length:** 1.5 meters. **Included Accessories:** (1 black, 1 red) 2 cables, 2 probes, 2 sprung hooks, 2 alligator clips, 2 spade terminals.

TPI X1, X10 and GND REFERENCE 100 MHz BANDWIDTH TEST LEADS
MODEL SP-100

OUR PRICE **$38.00**

SPECIFICATIONS
X1 SWITCH POSITION—Bandwidth: DC to 10 mHz. **Input Resistance:** 1 M ohm (oscilloscope input). **Input Capacity:** 40 pF (plus oscilloscope capacity). **Maximum Input Voltage:** 600 V (DC + peak AC). **REFERENCE SWITCH POSITION—Grounding:** Probe tip grounded via 9 M ohm resistor; oscilloscope input grounded. **X10 SWITCH POSITION—Bandwidth:** DC to 100 mHz. **Risetime:** 3.5 nsec. **Input Resistance:** 10 M ohms when used with oscilloscopes which have 1 M ohm input resistance (probe resistance is 9 M ohm ±1%). **Input Capacity:** 16.5 pF when used with oscilloscopes which have a 30 pF input capacity (17.5 pF for 2SP100; 16.5 pF for 3SP100). **Compensation Range:** 10 pF to 60 pF. **Maximum Input Voltage:** 600 V (DC + peak AC). **Cable Length:** 1.5 meters.

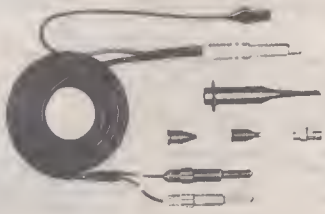
TPI RF DETECTOR PROBE
MODEL M-12DM

OUR PRICE **$69.00**

SPECIFICATIONS
Bandwidth: 100 kHz to 500 mHz ±1 dB. 100 kHz to 750 mHz ±3 dB. **Input Capacitance:** Approx. 5 pF. **Maximum AC Input Voltage:** 50 volts RMS. **DC Isolation Voltage:** 200 volts DC including peak AC. **Diode Turn On Voltage:** 250 mV. **Working Temp. Range:** —25 to +70°C. **Cable Length:** 1.2 meters. Also available with 4mm plugs (type M12DM4) and lengths of 2 and 3 meters, details on request.

TPI X10 ATTENUATION 100 mHz BANDWIDTH TEST LEADS
MODEL P-100

OUR PRICE **$36.00**



SPECIFICATIONS
Bandwidth: DC to 100 mHz. **Risetime:** 3.5 nsec. **Input Resistance:** 10 M ohms when used with oscilloscopes which have 1 M ohm input resistance (probe resistance is 9 M ohms ±1%). **Input Capacity:** 15.7 pF when used with oscilloscopes which have a 30 pF input capacity (16 pF for 3P100). **Compensation Range:** 10 pF to 60 pF. **Maximum Input Voltage:** 600 V (DC + peak AC). **Cable Length:** 1.5 meters (3 meters for 3P100).

BP HEAVY DUTY CLIP LEADS
MODEL HL-100A

OUR PRICE **$2.69** per pkg. 10 FOR **$22.50**

DESCRIPTION
Two each, five different color leads. 22" long, tip to tip, clip length 1-1/6". Jaws open to 1/4". 10 leads, 20 alligator clips.

BP ALLIGATOR CLIPS TO DOUBLE BANANA PLUG
MODEL 1531

OUR PRICE **$7.95**

BP ALLIGATOR CLIPS TO BNC MALE
MODEL 1587

OUR PRICE **$7.95**

BP UNIVERSAL TEST LEAD KIT
MODEL UTL-325

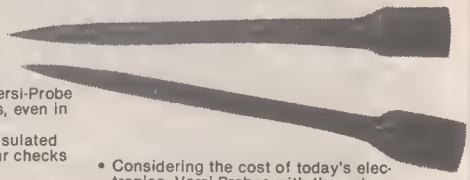
OUR PRICE **$4.95**

FEATURES
- 4 alligator clips (2 red, 2 black).
- 2 spade lugs.
- 2 needle tips.
- 2 banana plugs.
- 2 test probes.

DESCRIPTION
Every combination you could possibly use for your testing needs.

VERSI-PROBE TEST PROBES FOR SPACE AGE ELECTRONICS
MODEL VP-1

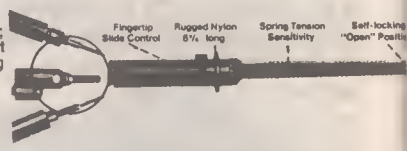
OUR PRICE **$4.95**



FEATURES
- Total insulation feature of the Versi-Probe guards against accidental shorts, even in the most crowded circuit areas.
- Sharp point allows piercing of insulated P.C. boards and wires. Make your checks without removing insulation.
- Using standard insulated alligator clips change quickly from clip to probe—or probe to clip.
- Considering the cost of today's electronics, Versi-Probes with the unique micro-tip can pay for themselves with one prevented "Short"!

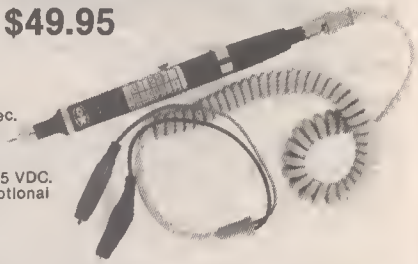
HH SMITH THE HOOKON
MODEL 3070

OUR PRICE **$5.95** each 6 FOR **$30.00**



FEATURES
- Hooks on to bare wires; component leads; wire-wrap tails; connector terminals; turret terminals, etc. Holds no-hands with spring tension.
- Probes P.C. pads and runs; soldered terminals; connector tips; finger contacts, etc. Hook locks forward for ease in probing.
- Slides on .025" square and .025 x .050 wire-wrap tails; up to 6 guage solid wire tails, holds no-hands without extending contact.
- Fits between terminals spaces down to .100"; I.C. socket tails.
- Supplied one each in plastic container.

OK TOOLS DIGITAL LOGIC PROBE
MODEL PRB-1 OUR PRICE **$49.95**



FEATURES
- DC to greater than 50 mHz.
- 10 Nsec. pulse response.
- 120K ohm impedence.
- Automatic pulse stretching to 50 Msec.
- Automatic resetting memory.
- Open circuit detection.
- Automatic threshold resetting.
- Compatible with all logic families 4-15 VDC.
- Range extended to 15-25 VDC with optional PA-1 adaptor.
- Supply O.V.P. to ±70 VDC.
- No switches/no calibration.

DESCRIPTION
Compatible with DTL, TTL, CMOS, MOS and Microprocessors using a 4 to 15V power supply. Thresholds automatically programmed. Automatic resetting memory. No adjustment required. Visual indication of logic levels, using LED's to show high, low, bad level or open circuit logic end pulses. Highly sophisticated, shirt pocket portable (protective tip cap end removable coil cord.)

OK TOOLS LOGIC PULSAR
MODEL PLS-1 OUR PRICE **$59.95**

FEATURES
- Multi-family RTL, DTL, TTL, CMOS, MOS and Microprocessors.
- Multi mode-single pulses or pulse trains.
- Automatic polarity sensing.
- Automatic current limiting; .7 amps nominal.
- Automatically programmed output level.
- Circuit powered.
- No adjustments required.
- High input impedance (off state) 1 meg ohm.
- Low output impedance (active state) 2 ohms.
- Output pulse width 2 usec nominal.
- Input over voltage protection +50 volts.
- Finger tip push button actuated.
- Power lead reverse protection.

DESCRIPTION
The PLS-1 logic pulser will superimpose a dynamic pulse train (20 pps) or a single pulse onto the circuit node under test. There is no need to unsolder pins or cut printed-circuit traces even when these nodes are being clamped by digital outputs.

PLS-1 is a multi-mode, high current pulse generator packaged in a hand-held shirt pocket portable instrument. It can source or sink sufficient current to force saturated output transistors in digital circuits into the opposite logic state.

Signal injection is by means of a pushbutton switch near the probe tip. When the button is depressed, a single high-going or low-going pulse of 2 usec wide is delivered to the circuit node under test. Pulse polarity is automatic: high nodes are pulsed low and low nodes are pulsed high. Holding the button down delivers a series of pulses of 20 pps to the circuit under test.

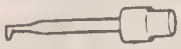
LEADER 100 MHz X10 PROBE
MODEL LP-18AX

OUR PRICE **$34.95**

SPECIFICATIONS
- Bandwidth: 100 mHz.
- Rise Time: 3.5 nanoseconds.
- Input Resistance: 10M ohm when used with oscilloscopes with 1M ohm input (probe resistance 9M ohm ±1%).

VANCO MINI-GRABBER TEST PRODS
MODEL MG-3

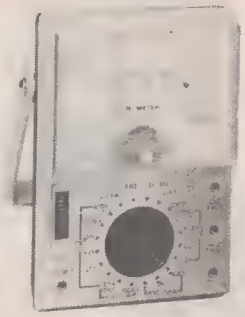
OUR PRICE **$1.95**



DESCRIPTION
1-9/16" long tiny mini-grabber. Injector type prods firmly clip onto small or large components. Frees hands for meter reading or other work for extended time. Red or black.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

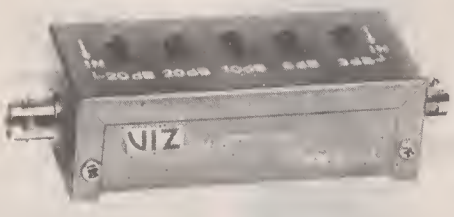
BP 20,000 OHM/VOLTS MULTITESTER
MODEL VM-520
REG. $29.95
OUR PRICE $12.95 SPECIAL!



DESCRIPTION
Ideal for use where measurements must not appreciably disturb the circuit being tested, the BP model VM-520 features high 20,000 ohms/volt DC and 10,000 ohms/volt AC sensitivities on all ranges. Special circuitry has been included to protect the meter movement against accidental overload. DC voltage can be measured on any one of eight ranges while AC voltage measurements can be made on five practical ranges. Also included are one dB range, five DC current ranges and four resistance ranges. A mirror arc has been included to help eliminate parallax errors from readings. A convenient carrying handle built onto the case can also be used to position the meter for easy reading.
Built in a modern high-impact case, the BP model VM-520 is a quality product in both performance and appearance. An optional carrying case is available.

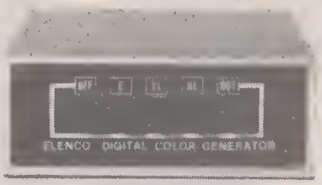
SPECIFICATIONS
DC Volts: 0-0.25, 1, 2.5, 10, 25, 100, 250, 1000 volts, 20,000 ohms/volt. **AC Volts:** 0-10, 25, 100, 250, 1000 volts, 10,000 ohms/volt. • **Decibel:** -20 to +22dB. **DC Current:** 0-50, 500 uA; 0-5, 50, 500 mA. **Ohmmeter:** 0-6 Megohms in 4 ranges, 30 ohms center scale. **Power Supply:** One 1.5 V size "AA" battery (incl.) **Size:** 5-1/4" x 3-1/2" x 1-1/2". • **Weight:** 1 lb. (incl. battery).
Optional Case CC-10 $4.95

VIZ ATTENUATOR
MODEL WM-542A
OUR PRICE $37.50



DESCRIPTION
The WM-542A is a high-quality, shielded attenuator designed for use both in test equipment applications and for television installation and service, particularly MATV and CATV.
The attenuator is a constant 75-ohm impedance device. Five step-switches arranged in a convenient 3-6-10-20-20 dB sequence provide a selection of the most used attenuation values up to 59 dB.
Accurate attenuation of RF signals up to 250 mHz is provided and the unit is usable for signals up to 900 mHz. While the device is designed for signals up through the IF and VHF television spectrum, it can be used to attenuate UHF signals with only a small amount of accuracy loss and increase in VSWR.
The WM-542A has versatile BNC-type connectors so that the device can be used with the WG-427A 'BNC to BNC' or WG-469A 'BNC to F' 75 ohm shielded cables.

ELENCO DELUXE DIGITAL COLOR CONVERGENCE GENERATORS
MODEL SG-200
OUR PRICE $99.95



DESCRIPTION
Finest generator in the industry, ten solid patterns, including both gated and full color rainbow, plus the strongest case ever. It's virtually indestructible, all solid state, using two quartz crystal master oscillators.

GC ELECTRONICS CAPACITANCE SUBSTITUTION UNIT
MODEL 20-102
OUR PRICE $59.95

DESCRIPTION
A must for troubleshooting, maintenance, lab use, prototype and experimental use. Great for circuit development...simply place wires into the unit and adjust to the desired capacitor value...then remove the wires and add the value capacitor required. Wide range of capacitance (5 decades). Dual contact slide switches allow adding or subtracting to the value needed. Rugged, sturdy design—conveniently sized: 5-1/2 x 3-1/2 x 1-5/16".

SPECIFICATIONS
Range: 100 pF to 4.7 mFd. **Precision:** 10% capacitors throughout. **Voltage:** 200 VDC, non-polarized. **Residual Capacitance:** 100 pF internal, 100 pF to ground. **Terminals:** Push type.

ENCO HIGH-VOLTAGE PROBE
MODEL PHV-1
OUR PRICE $39.95

FEATURES
- 40k ohms/vdc. • DC Current 400mA.
- One hand operation by having the meter in the handle.
- Measures 40,000 volts DC and 400mA DC safely & individually; simply with the flick of a switch. • Carrying Case included.

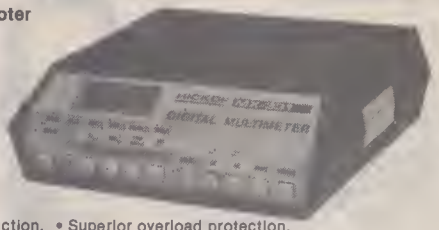
B&K PRECISION 3-1/2 DIGIT 5 FUNCTION DMM
MODEL 2805
REG. $100.00 **OUR PRICE $69.95**

DESCRIPTION
The B&K Precision Model 2805 offers outstanding value and a wide variety of features. Auto-zeroing minimizes set-up time, while an early low battery warning indicator prevents unexpected battery failure.

FEATURES
- 200 mV AC/DC voltage ranges.
- 200uA to 10A AC/DC current ranges.
- Auto zeroing; auto polarity.
- 10 megohm input impedance.
- Completely overload protected.
- Overrange indication of all ranges.
- High energy fuse for added safety.

SPECIFICATIONS
AC-DC VOLTAGE—Ranges: 0-200 mV; 2, 20, 200 and 1000V. **Input Impedence:** 10M ohm (AC and DC). **Circuit Protection:** ±1000 VDC plus AC peak; 700 V RMS. **Polarity Indication:** Automatic, minus sign shown; plus sign implied. **Overrange:** Indication provided when range is exceeded. **Frequency Response:** 40-500 Hz. Note: average responding circuitry calibrated to read rms value of pure sign wave. **AC AND DC CURRENT—Ranges:** DC: 200uA, 2, 20, 200 mA. AC: 1,000 mA, 10 A without shunt. **Circuit Protection:** Fuse. **AC Response:** 40-500 Hz. **RESISTANCE—Ranges:** 200 ohms, 2, 20, 200, 2000K ohm. **Circuit Protection:** ±240 VDC plus AC peak, 240 VAC rms. All ranges protected against accidental direct connection to AC line (117 V nominal). **ACCURACY—DC Volts:** ±0.8% of reading, ±0.2% of full scale (FS), ±1 least significant digit (LSD). **AC Volts:** ±1% of reading, ±0.5% of FS, ±2 LSD. **DC Current:** ±1.5% of reading, ±1 LSD. **AC Current:** ±3% of reading, ±2 LSD. **Resistance:** ±1% of reading, ±3% of FS, 200 ohm range. ±1% of reading, ±0.2% of FS, ±1 LSD, 2, 20, 200, 2000K ohm ranges. ±3% of reading, ±1 LSD, 20M ohm range. **GENERAL—Readout:** 3-1/2 digit 9.5cm (0.375 inch) high, liquid crystal display. Maximum reading 1999. **Operating Temperature:** 0° to 50°C. Storage temperature —10° to 50°C. **Power:** 9 volt battery (NEDA 1604 or equivalent). **Size (HWD):** 16.5 x 9.5 x 4.1cm (6.5 x 3.7 x 1.6"). **Weight:** (including battery and test leads) 580g (1.3 lbs). Comes with test leads and carrying case.

HICKOK MX DIGITAL MULTIMETER
World's Fastest Troubleshooter
MODEL MX-331
REG. $199.00
OUR PRICE
$149.95



FEATURES
- 0.1% basic accuracy.
- LCD display in unique wide vue case.
- Uses single 9V battery.
- Compact size. Rugged construction. • Superior overload protection.

DESCRIPTION
Compact size, unique shape and easy-to-read from almost any angle sloped display facilitates use as a hand held, bench top or belt mounted instrument.

SPECIFICATIONS
DC Volts (5 ranges): 200mV to 1000V full scale. Resolution: 0.1mV. Accuracy: ±0.1% +1 digit. Input Impedance: 10M ohm. Overload Protection: 1000 V DC or peak AC + up to 6kV transients all ranges. **AC Volts (5 ranges):** 200mV to 1000V full scale. Resolution: 0.1mV. Accuracy: ±1% +2 digits, 45 Hz to 1 kHz, ±5% +5 digits to 5 kHz. Input Impedance: 10M ohm. Overload Protection: 1000 V DC/750 rms. **Resistance (6 ranges):** 200 ohm to 20M ohm full scale. Resolution: 0.1 ohm. Accuracy: 0.1% +1 digit except 0.2% on 200 ohm, 1% on 20M ohm and 3% on 20 ohm ranges. Overload Protection: 500 V DC on rms all ranges plus 2A fuse on 20 ohm range. Test Voltage: Low power, 0.25V max of full scale. **Diode Test (1 range):** Measures forward voltage drop across diode and transistor junctions at 2mA nominal current. **AC/DC Current (5 ranges):** 2mA to 10A full scale. Resolution: 1uA. Accuracy: ±1.2% +1 digit DC, ±2.5% +1 digit AC. Overload Protection: 250V at 2A all ranges except 10A, max 15A on 10A range. **General:** Dimensions: 2.2 x 6.7 x 6" (5.6 x 17 x 15.2cm). Weight: 22 oz. (.7kg). Power: 9V battery (incl) or Hickok AC adaptor. Battery life is 200 hrs. typical. Temperature: 0-50°C operating, —35 to +60°C storage. Includes: Deluxe safety test leads, battery, manual and belt clip.

CASTLE COMPONENT ANALYZER
MODEL 8001
REG. $79.95
OUR PRICE $59.95 NEW!

DESCRIPTION
Solid state. Trouble shoots components in or out of the circuitry in TV receivers, stereos, computers, CB equipment and other electronic devices. Simple hook-up to any standard oscilloscope. High, medium and low range switch for matching the impedance of the component being tested. Tests integrated circuits, bipolar transistors, field effect transistors, diodes, zeners, unijunctions, seliniums and gate control switches.

GC ELECTRONICS RESISTANCE WHEEL
MODEL 20-104 (Formerly H3-456)
OUR PRICE $14.95

DESCRIPTION
Helps select resistors for any circuit. Color-coded, insulated alligator clips attach easily to circuit; easily readable dial indicates resistor value when rotated. 1/4 watt, 5% resistor values (5 ohms—1M ohm), 100 V. max.

A.W. SPERRY
SNAP 10 ROTARY SCALE

Snap Around Volt-Ohm-Ammeter
'The Bus Ber Snap Around'
MODEL SPR-1030
OUR PRICE $102.95

DESCRIPTION
Letest circuitry and design. Specifically for industry, commercial buildings, utilities and installetions. To 1,000 amps AC; 750 volta AC in 3 practical self-contained ranges; 25 ohma mid-scale. Heavily insuleted rectangular jaws for both bus ber and round conductors. Jaw opening 2-3/8". Inside jew aree 3-1/8" H x 2-3/16" Min. W.

Porteble. Rugged. Grip fast plestic case. Complete with Ohm-probe® . Test leads, carrying cese and operating instructions. Roomy carrying case has handle. 24 oz. 11-3/8" H x 4-1/4" W (add 3/8" for trigger) x 1-3/4" T.

Model	AC Amps	AC Volts
SPR-1030 Bleck Plestics 25 ohms midscale	10/30/100/300/000	150/300/750

A.W.SPERRY DIGISNAP

Digitel Snep-Around Volt-Ohm-Ammeter
MODEL DSA-1000
OUR PRICE $221.00

DESCRIPTION
DIGISNAP is the first 3-1/2 Digit Snap Around evailable. Its large liquid crystal displey not only indicates whet you are reading but also lets you know when you are exceeding the meter's capability. There is no range selection switch because the meter autometically changes renge when necessary. The 50,000 hour rated bettery life makea replacing batteries a thing of the past. A 8 hour battery recherge cycle allows you to use the meter for up to 50 hours of continuous use. Battery charger cen also be used es en AC adaptor.

DIGISNAP ellows you to take accurate measurements easily. The data lock push button gives you the option to freeze the reeding, which is eapecially helpful under low ambient light conditions or where the meter diaplay is not easily seen. DIGISNAP's peak hold cepability will measure voltage and current aurgea end display the peak values.

DIGISNAP is attractively cesed in bleck ahock resistent ABS plastics housing. Takes up to 2" OD cable. Weighs 2.5 lbs. 9.8" H x 3.8" W x 1.4" T. Comes complete with carrying case, test leads, betery pak, fuse, operating instructions and warrenty card.

Model SBC-1 Battery Charger
Ia e required eccessory.....**$12.50**

Model	AC Amps	AC Volts
DSA-1000 Ohms 0-199.9/200-1999	0-199.9/200-1000	0-199.9/200-750

A.W. SPERRY SNAP 6 SWIVEL CASE

Snap Around Volt-Ohm-Ammeter 50-400 Hz
OUR PRICE $66.95

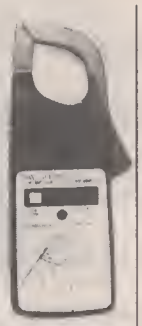
DESCRIPTION
Economy line with the new Ohmprobe® fused bettery probe.

Designed to incorporate the Ohmmeter with the aame current and voltage ranges of the Sperry Snap 5. Portable, pocket aize. Lightweight, only 11 oz. 7-7/16 x 2-15/16". Complete with Ohmprobe® , test leads, carrying case end operating instructiona. OHM-525 comes in yellow plestics, other models in black plestics.

Model	AC Amps	AC Volts
OHM-50	10/50	150/300/600
OHM-150	30/150	150/300/600
OHM-300	60/300	150/300/600
OHM-525 25 Ohms Midscale	5/25/125	150/300

A.W. SPERRY
SNAP 60 SLIM SNAP

MODEL TD-6
OUR PRICE $78.95



DESCRIPTION
Brand new series and approach to Snap Arounds based on comfort in the hand and ease of operation. TD-6 is the trend setter in the analog series of our famous Tear Drop Jaw Design. Slim. Compact. Truly pocket size. Ranges are accurately presented on a full view graduated conventional flat scale. Finger accessible rotary selector switch. Pointer lock.

New Ohmprobe® Model OBA-2 has internally threaded plus for positive lock connection with a threaded screw deeply recessed in ohm terminal. Plus a 600 V AC rated high interruption capacity fuse for maximum protection. Complete with Ohmprobe® with battery and fuse, test leads, carrying case and operating instructions.

Model	AC Amps	AC Volts
TD-6 25 Ohms Midscale	8/15/60/300	150/300/600

A.W. SPERRY
SNAP 9 ROTARY SCALE

Snep Around Ammeter
Volt-Ammeter
Volt-Ohm-Ammeter
50-400 Hz Continuous Duty

DESCRIPTION
Popular heavy duty series. New, improved, latest engineering. Designed for everyday electrical needs. Round jaws take up to 1-9/16" OD round conductors. Choice of 3 models, depending on number of functions desired. Reads to 900 Amps AC; 750 Volts AC in 3 practical self-contained ranges; 25 ohms midscale.

Portable husky. Built to stand the gaff of high current. Grip-fast plastic case, in 3 colors for instant identity. Complete with Ohmprobe® and test leads where required. Carrying case and operating instructions. Roomy carrying case has both belt loop and hand strap. Weight 20 oz. 9-3/16 L x 3 W x 1-11/16" T.

Model	AC Amps	AC Volts	Our Price
SPR-910 Blue plastic	10/30/100/200 300/600/900	---	$ 88.85
SPR-920 Grey plastic	110/30/100 300/900	150/300/750	89.85
SPR-930 Black plastic 25 Ohm Midscale	10/30/60 300/900	150/300/750	90.85

A.W SPERRY
MINI PROBE®

Snap Around Volt-Ammeter
50/80 Hz Continuous Duty Rated
OUR PRICE $34.50

DESCRIPTION
The smallest of our snap arounds. Shirt pocket size. Weighs but 4-1/2 oz. Splendidly engineered for everyday jobs where more expensive and sophisticated instruments are not required.

Grip fast ABS plastic housings. Full view window. Takes up to 3/4" OD conductor. Complete with test leads and operating instructions.

C-18 carrying case available as an accessory.

Model	AC Amps	AC Volts
SJ-25	25	250
SJ-50	50	250
SJ-100	100	250

A.W. SPERRY
SNAP 6 SWIVEL CASE

Snap Around Volt-Ammeter 50-400 Hz
OUR PRICE $60.95

DESCRIPTION
Same size and weight as Snap 6 above. Comes in Grey plastics for instant identity. Breaks the barrier of unnecessary ranges and lets you pocket the savings. Dynamic full spectrum 6 ranges that gives you full job capability with 3 current and 3 volt ranges. Complete with carrying case, test leads and operating instructions

Model	AC Amps	AC Volts
M-100	10/50/100	150/300/600
M-300	25/100/300	150/300/600

A.W.SPERRY
SNAP 8 ROTARY SCALE

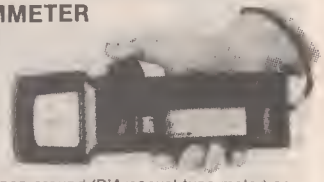
Snap Around Ammeter
Volt-Ammeter
Volt-Ohm-Ammeter
50-400 Hz

DESCRIPTION
A powerhouse of electrical servicing versatility. Covers full span of daily needs from fractional horsepower and low current equipment to big systems. Pocket size. Portable. Well balanced with solid grip contour. Weight 15 oz. Built-in features not found in other similar instruments. 8-7/16 x 2-11/16 x 1-7/16". Complete with test leads, Ohmprobe® where required, carrying case and operating instructions.

Model	AC Amps	AC Volts	Our Price
SPR-100 Steel blue plastics	6/15/40/75/100 150/200/300	---	$ 59.95
SPR-200 Grey plastic	6/15/40/100/300	150/300/600	63.85
SPR-300 Black plastic 25 Ohm Midscale	8/15/40 100/300	150/300/600	68.85
SPR-300CL Clear plastic	Same ranges as	SPR-300	68.85
EXP-300AW Green plastic 25 Ohms Midscale	6/15/40 100/300	100-150 200-300 400-600	85.00
SPR-311 Yellow plastic 25 Ohms Midscale	1.5/5/15 50/150	150/300/600	79.95

AW SPERRY DC SNAP AROUND VOLT-OHM-AMMETER

MODEL SDC-701
OUR PRICE
$310.00



DESCRIPTION
The first DC analog snap eround (D'Arsonvel type meter) as an integral unit with all instrument fuctions contained in a pocket size housing.

The first in its class with stable "Half Element" circuitry design.

Sleek and well balanced, with slim styled lines, yet rugged, with reliable performance and long field life, the AWS Snap 7 opens up a new concept in DC Snap Around Volt-Ohm-Ammeters.

You will find ut well worth the long wait for this unusual instrument.

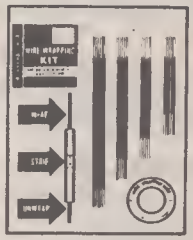
SPECIFICATIONS

Functions	Ranges	Accuracy
DC Amps	30/75/150/300/600A*	±5% F.S.
DC Volts	3/30/300V	±3%F.S.
Ohms	2K ohm, (25ohm mid-scale)	±3% of arc length

* Weight: 23 ozs. (650 gr).

WIRE WRAPPING ACCESSORIES

OK TOOLS WIRE WRAPPING KIT



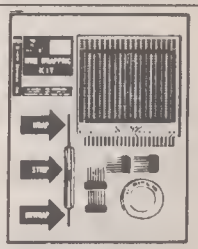
CONTAINS
- Hobby wrap tool WSU-30.
- (50 ft.) roll of wire.
- Pre-stripped wire 1" to 4" lengths (50 wires per package) stripped 1" both ends.

Model	Color	Our Price
WK-2-Y	Wire-Wrapping Kit (Yellow)	$17.40
WK-2-W	Wire-Wrapping Kit (White)	17.40
WK-2-R	Wire-Wrapping Kit (Red)	17.40
WK-2-B	Wire-Wrapping Kit (Blue)	17.40

OK TOOLS WIRE WRAPPING KIT

MODEL WK-3 blue

OUR PRICE $21.95

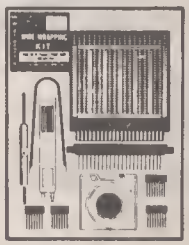


CONTAINS
- Hobby wrap tool WSU-30.
- Roll of wire R-30B-0050.
- (2) 14 DIP's.
- (2) 16 DIP's.
- Hobby board H-PCB-1.

OK TOOLS WIRE WRAPPING KIT

MODEL WK-4 blue

OUR PRICE $32.95

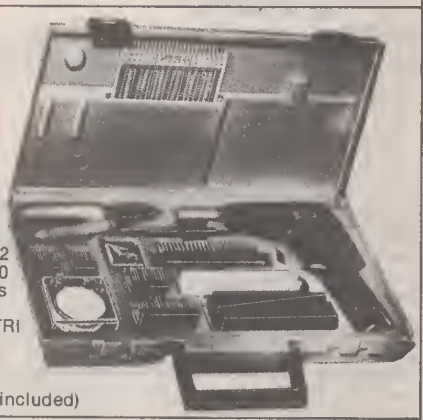


CONTAINS
- Hobby wrap tool WSU-30M.
- Wire dispenser WD-30-B.
- (2) 14 DIP's.
- (2) 16 DIP's.
- Hobby board H-PCB-1.
- DIP IC insertion tool INS-1416.
- DIP IC extractor tool EX-1.
- PC Edge connector CON-1.

OK TOOLS WIRE WRAPPING KIT

MODEL WK-5

OUR PRICE $79.95



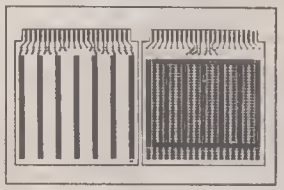
CONTAINS
- Battery Tool BW-630
- Hobby Wrap Tool WSU-30M
- PC Edge Connector CON-1
- DIP/IC Extractor Tool EX-1
- DIP/IC Insertion Tool INS-1416
- PC Card Guides & Brackets TRS-2
- Mini-Shear with Safety Clip MS-20
- 14, 16, 24 and 40 DIP PIN Sockets
- Terminals WWT-1
- Tri-Color Wire Dispenser WD-30-TRI
- Hobby Board H-PCB-1
- Product Catalog

Use "C" size NI-Cad batteries (not included)

OK TOOLS PC BOARD

MODEL H-PCB-1

OUR PRICE $7.95



DESCRIPTION

The 4 x 4.5 x 1/16 inch board is made of glass coated EPOXY Laminate and features solder coated 1 oz. copper pads. The board has provision for a 22/44 two sided edge connector, with contacts on standard .156 spacing. Edge contacts are non-dedicated for maximum flexibility.

The board contains a matrix of .040 in. diameter holes on .100 inch centers. The component side contains 76 two-hole pads that can accommodate any DIP size from 6-40 pins, as well as discrete components. Typical density is 18 of 14-Pin or 16-Pin DIP's. Components may be soldered directly to the board or intermediate sockets may be used for soldering or wire-wrapping.

Two independent bus systems are provided for voltage and ground on both sides of the board. In addition, the component side contains 14 individual busses running the full length of the board for complete wiring flexibility. These busses enable access from edge contacts to distant components. These busses can also serve to augment the voltage or ground busses, and may be cut to length for particular applications.

OK TOOLS HOBBY WRAP TOOL

MODEL WSU-30 regular wrap

OUR PRICE $9.30

MODEL WSU-30M modified wrap

OUR PRICE $10.65

DESCRIPTION

Wire-wrapping, stripping, unwrapping tool for AWG 30 on .025 (0,63mm) square post.

OK TOOLS JUST WRAP KIT

MODEL JWK-6

OUR PRICE $36.00

CONTAINS
- JUST WRAP Tool
- Roll of Blue Wire, 50 ft.
- Roll of White Wire, 50 ft.
- Roll of Yellow Wire, 50 ft.
- Roll of Red Wire, 50 ft.
- Unwrapping Tool

OK TOOLS JUST WRAP TOOL

MODEL JW-1

OUR PRICE $21.95

With one 50 ft. roll wire

OK TOOLS WIRE DISPENSER

FEATURES
- With 50 ft. roll of AWG 30 KYNAR® wire-wrapping wire.
- Cuts the wire to length.
- Strips 1" of insulation.

Model	Color	Our Price
WD-30-B	Blue Wire	$7.95
WD-30-Y	Yellow Wire	7.95
WD-30-W	White Wire	7.95
WD-30-R	Red Wire	7.95

OK TOOLS DISPENSER REPLACEMENT ROLLS

DESCRIPTION

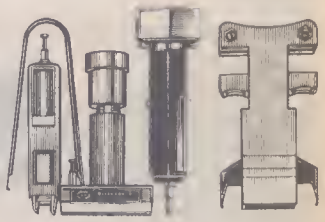
Wire for wire-wrapping. AWG-30 (0.25mm) KYNAR® wire, 50 ft. roll, silver plated, solid conductor, easy stripping.

Model	Color	Our Price
R-30B-0050	30-AWG Blue 50 ft. roll	$4.95
R-30Y-0050	30-AWG Yellow 50 ft. roll	4.95
R-30W-0050	30-AWG White 50 ft. roll	4.95
R-30R-0050	30-AWG Red 50 ft. roll	4.95

OK TOOLS IC INSERTION/EXTRACTION KIT

MODEL WK-7

OUR PRICE $43.40



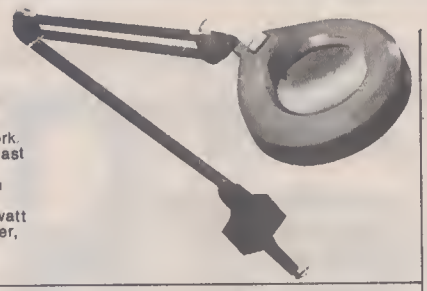
DESCRIPTION

Widely used by major retailers—electronic service personnel. A new kit of DIP IC extractors and inserters to accommodate all IC's from 8-40 pins. All tools that engage conductive surfaces are CMOS safe and include grounding lugs where appropriate. Kit contains extractors EX-1 that extracts all LSI, MSI and SSI devices from 8 to 24 pins; EX-2 removes 24-40 pin IC's, .600" centers; plus inserter INS-1416 DIP/IC 14-16 pin with narrow profile, pin straightener built into tool, and automatic ejector; inserter MOS-40 aligns bent-out pins; inserter MOS-2428 for 24-28 pin IC's; and inserter MOS-1416 for 14-16 pin IC's.

LAMPS & VISES

BP MAGNIFIER LAMP
MODEL MG-180

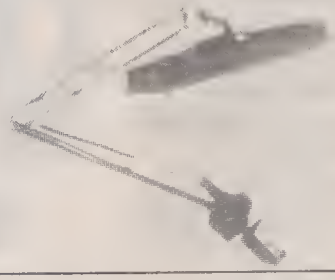
OUR PRICE **$69.95**



DESCRIPTION
Offers large viewing area for fine details, component assembly and other close work. Has unique double tension control. Die cast shade guards against dents and bulb breakage. Magnification lens is precision ground and polished. Instant starting. In grey, black, white and tan. Uses one 22 watt T-9 circline fluorescent tube. Three diopter, 13" focus standard on all models. (45" reach).

LEDU FLUORESCENT
MODEL DF-10D

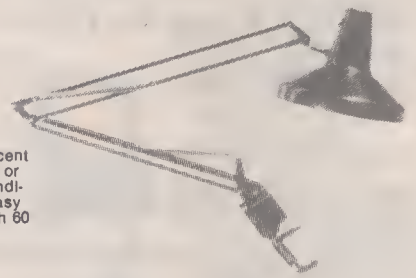
OUR PRICE **$89.95**



DESCRIPTION
This fluorescent lamp features a durable, thermoplastic resin shade that stays 20% cooler than metal shades, and is stain and crack resistant. Fully adjustable. Instant start switch. Comes in White with two 15 watt fluorescent tubes.

LEDU COMBINATION
MODEL C-10D

OUR PRICE **$89.95**



DESCRIPTION
This lamp has fluorescent and incandescent lamps in one vented shade; independent or simultaneous operation for true color rendition. Shade has convenient handle for easy positioning of lamp. Comes in White with 60 watt bulb and 22 watt fluorescent tube.

BP ECONOMY LAMP
MODEL XL-334

OUR PRICE **$14.95** each 4 FOR **$50.00**

DESCRIPTION
Popular, low-priced bench lamp made with the same attention to quality as well as all BP lamps. Tubular steel, spring balanced arms; vented shade; tension control knobs, 2-conductor cord.

Colors: baked enamel finishes—red, yellow, blue, black, oyster white.

UL listed for 60 watt. Shipping weight with bracket: 3-1/2 lbs. (33" reach).

LEDU
MAGNIFIER LAMP WITH BASE
MODEL IM-8K

OUR PRICE **$110.00**

DESCRIPTION
This lamp has perfectly balanced fluorescent lighting with precision magnifier lens. Tough thermoplastic shade. Easy lens removal. New wire clip design permits easy installation and removal of fluorescent tube. Comes with plastic shield to protect tube from soiling and damage. Comes in White with 22 watt circline fluorescent tube.

LUXO
EXHAUST FAN LAMP
MODEL 16159
REG. $139.95

OUR PRICE **$99.95**

DESCRIPTION
Exhaust Fan Lamp Model 16159 comes on a 45" adjustable heavy duty K-arm. Separate switches for fan and lamp. 4 bladed fan delivers 100 CFM at 2900 RPM. Equipped with 3 conductor cord. FC8T9/CW22 watt fluorescent tube and a clamp for mounting to horizontal surfaces.

BP MAGNIFIER LAMP
MODEL ML-2A CLAMP ON LAMP

OUR PRICE **$24.95**

Lamp attaches to table or desk edge with large adjustable 4-way bracket clamp. 30" arm allows you to maneuver the lamp to a desired position

MODEL ML-2B DESK TOP **NEW!**

OUR PRICE **$36.95**

Lamp is mounted in a weighted base. It Sits on desk or table.

DESCRIPTION
The new BP magnifier utility lamp has a 3-3/4" diameter lens supplemented by a 40-watt standard appliance bulb. The A-15 incandescent bulb enlarges and illuminates allowing for hands free work or inspecting the viewing area clearly and comfortably. This lamp in sold in black only, it includes a factory installed 3-diopter lens, suited for most magnification requirements. Same magnification as the MG-180.

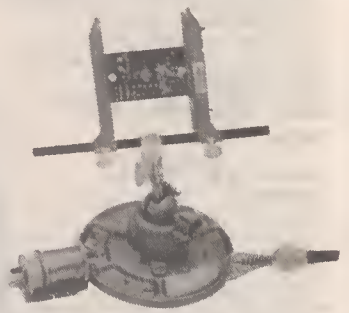
LEDU ASYMMETRIC LAMP
MODEL IPL-600

OUR PRICE **$74.95**

DESCRIPTION
Scientifically designed lighting for information processing task areas. Eliminates eye strain. Perfect for word processing and CRT applications. The shade swivels 360° on a horizontal plane. Comes in Almond with long-life 13 watt mini-fluorescent tube with same output as 75 watt incandescent bulb.

PANAVISE THE PANAVISE WORK CENTER
MODEL 324
REG. $59.95

OUR PRICE **$45.00**



DESCRIPTION
Hold circuit board holder on standard base Model 300. Tilts, turns and rotates to any position, then locks firmly in place. Fits on Model 312 Tray Base Mount.

Hold standard base, parts and tools on Model 312 Tray Base Mount, a wide 6-1/2" with 6 slip resisting feet which also holds the All New Model 371 Solder Station.

Hold spools of wire and solder on the solder holder with self centering slot. Keeps the rolls handy and secure without Rollaround.

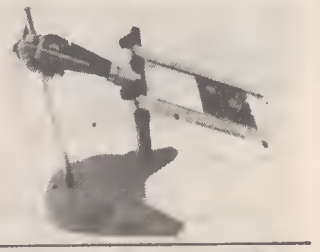
Hold PC boards, electronic parts in the Circuit Board Holder Model 315.

Hold 25 watt solder irons in the iron holder. Proper angle maintains constant heat. Safe and handy. Use left or right handed.

Hold rib sponge right in one of the convenient trays. Self purging slits permit single stroke cleaning action.

PANAVISE RAPID ASSEMBLY CIRCUIT BOARD HOLDER
MODEL 333-P

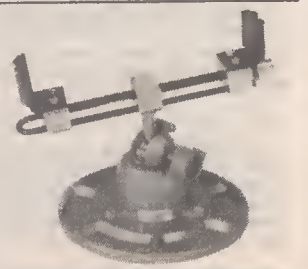
OUR PRICE **$37.95**



DESCRIPTION
This circuit board holder features eight position rotating adjustment and six positive lock positions in the vertical plane. Cross bars are available up to 30 inches in length to hold circuit boards up to 28 inches in width. Extra arms can be added for dual or multiple board holding. Spring loaded, the 333 features tilt angle adjustment, height adjustment and quick board rotations for easy component insertion and soldering.

PANAVISE
MULTI PURPOSE WORK CENTER
MODEL 350

OUR PRICE **$39.95**



DESCRIPTION
Self Centering Extra Wide Opening Head. Double action jaws provide fast opening and closing and support of heavy loads. Opens to a full 9 inches. Ribbed on one side and "V" grooved on the other, the 376's reversible jaw pads firmly hold cylindrical or odd.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

VISES-BUY THE HEAD THAT FITS THE BASE

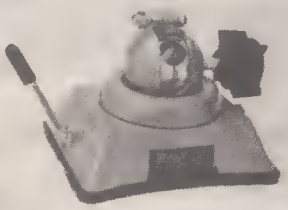
PANAVISE ORIGINAL BASE
MODEL 300
OUR PRICE
$14.95

DESCRIPTION
Designed for all normal permanent installations. Three lugs spaced 120 degrees apart provide maximum mounting stability. Overall height: 3-13/16" (97mm). Base diameter 5" (127mm).

PANAVISE LOW PROFILE BASE
MODEL 305
OUR PRICE **$14.95**

DESCRIPTION
Permits working close to bench top. Straight front flushes to edge of working surface. Overall height: 2-5/8" (67 mm). Base diameter: 5" (127 mm).

PANAVISE VACUUM BASE
MODEL 380
OUR PRICE
$21.95



DESCRIPTION
Attaches instantly and securely to any smooth, non-porous surface. Ideal for a variety of set-ups. Half turn of mounting lever attaches and releases powerful suction pad. Overall height: 3-3/16" (81 mm). Base dimensions: 5" x 4-1/4".

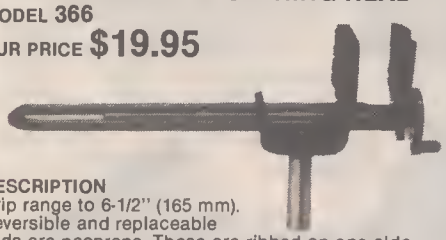
PANAVISE WEIGHTED BASE MOUNT
MODEL 308
OUR PRICE **$16.75**

DESCRIPTION
This cast iron mount weighs 5 lbs. (2.3 kg) and has neoprene non-marring, anti-skid feet.

PANAVISE BENCH CLAMP MOUNTING BASE
MODEL 311
OUR PRICE
$21.95

DESCRIPTION
Securely clamps to the edge of a work bench or counter. Attaches with a clamp screw which opens to a maximum 3-1/2" (89 mm).

PANAVISE WIDE OPENING HEAD
MODEL 366
OUR PRICE **$19.95**



DESCRIPTION
Grip range to 6-1/2" (165 mm). Reversible and replaceable pads are neoprene. These are ribbed on one side, and a wide 'v' configuration on the other to firmly hold cylindrical objects. This multi-purpose vise has a matte black finish to reduce eye fatigue.

PANAVISE LOW PROFILE HEAD
MODEL 304
OUR PRICE **$20.95**

DESCRIPTION
Provides extremely low profile work positioning, especially when used with MODEL 305 Low Profile Base. Replaceable steel jaws.

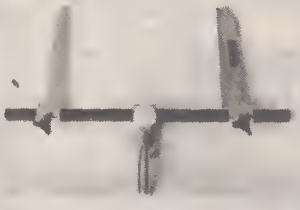
PANAVISE TRAY MOUNT AND SOLDER STATION
MODEL 312-P
OUR PRICE
$14.95

DESCRIPTION
HOLD STANDARD BASE, PARTS AND TOOLS on Model 312 Tray Base Mount, a wide 8-1/4" with 6 slip resisting feet which also holds Model 371 Solder Station.

PANAVISE ORIGINAL VISE HEAD
MODEL 303
OUR PRICE
$18.95

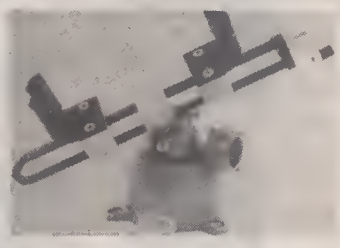
DESCRIPTION
Wide 2-1/2" (63 mm) jaws open to 2-1/4" (57 mm). Head is pressure diecast aluminun alloy, with steel and brass inserts. Hammertone gray/green finish. Replaceable nylon jaws.

PANAISE CIRCUIT BOARD HOLDER
MODEL 315
OUR PRICE
$20.45



DESCRIPTION
Holds p.c. boards exactly where you want them. Spring loaded arm for quick board changes. V grooves for boards to 5/32 (4 mm) thick. Second set of lateral grooves near tip ends for exceptionally small p.c. boards and small electronic parts. Standard model holds p.c. boards up to 8" (203 mm). Cross bars up to 30" (762 mm) and extra arms are available for multiple board use.

PANAVISE SELF-CENTERING EXTRA WIDE OPENING HEAD
MODEL 376
OUR PRICE
$22.45



DESCRIPTION
Double action jaws provide opening and closing and support of heavy loads. Opens to a full 9". Ribbed on one side and 'V' grooved on the other, the 376's reversible jaw pads firmly hold cylindrical or odd shaped items. Fits all of the Series 300 bases.

PANAVISE SOLDER STATION
MODEL 371 OUR PRICE **$6.95**

DESCRIPTION
A combination soldering iron holder and controlled-feed holder for standard spools of solder and wire plus two nib sponges with self-purging slits. The station attaches right to the PanaVise Tray Base or weighted Base Mount which, with any Panavise, creates a most convenient and functional work center. Parts, tools, wire, solder, and iron are all exactly where they should be. The Solder Station is also designed to be used separately as a free standing unit and can be conveniently attached to a bench or wall. It can be easily changed for left-handed use. Holds standard 25 watt irons.

PANAVISE WIDE OPENING HEAD AND BASE
MODEL 396
OUR PRICE
$33.95

DESCRIPTION
Designed specifically for holding electrical and electronic products in any position for assembly or repairs. The PanaVise 396 is a combination of the 366 Wide Opening Head and the 300 Standard Vise Base. Each full turn of the insulated handle permits micro-adjustments to the exact pressure required.

PANAVISE BASE AND HEAD
MODEL 301
OUR PRICE **$32.95**

DESCRIPTION
The Standard PanaVise Model 301 tilts, turns, and rotates. This general purpose vise, consisting of the Standard Base Model 300 and Model 303 Head, has nylon jaws with a satin finish for a firm grip. All this versatility simplifies work procedures. Just one convenient control knob locks work in any desired position.

PANAVISE VACUUM BASE AND HEAD
MODEL 381
OUR PRICE **$39.95**

DESCRIPTION
PanaVise 380 Vacuum Base combines with the Model 303 Standard PanaVise Head to create the same versatility of the Standard PanaVise with portability. Half turn of the mounting lever attaches and releases powerful suction pad to allow set-ups in a variety of locations with smooth non-porous surfaces.

PANAVISE VACUUM MOUNT
MODEL 379
OUR PRICE **$14.95**

DESCRIPTION
A heavy duty suction pad which attaches firmly to any nonporous smooth surface. It is pre-drilled for attaching your own instruments or devices with 3 holes two inches apart. Flat surface 3" x 3-1/4".

COMPUTER ACCESSORIES

BP HEAVY DUTY SPIKE PROTECTOR WITH SURGE PROTECTION

NEW!

MODEL NF-728

OUR PRICE **$4.95**

10 FOR **$40.00**

FEATURES
- Protects all valuable equipment.
- Single outlet with noise filter and surge protection.
- Gold and Silver plating.
- Limits voltage transients.

GENERAL ELECTRIC VOLTAGE SPIKE PROTECTOR

MODEL GESP-752

OUR PRICE **$8.95** each

10 FOR **$80.00**

DESCRIPTION
Voltage Spike Protector limits voltage transients that might damage equipment. It plugs into a 120-volt grounded AC receptacle and protects TV's, stereos, and other sensitive electronic equipment against lightning strikes that cause high-voltage surges. Contained within is a varistor that permits only a safe voltage level to enter protected equipment and does not interfere with normal current flow, or add to energy cost.

SGL WABER DATAGARD DG-115 SERIES SPIKE PROTECTION ONLY

MODEL DG-115P

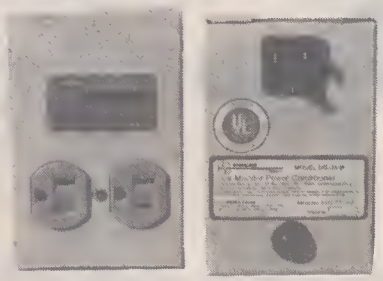
OUR PRICE **$35.00**

Wall Plug-In Unit.

MODEL DG-115S

OUR PRICE **$45.00**

12" Strip for Multiple Plug-In.



DESCRIPTION
The DG-115 Series includes two models — a plug-in unit and a 12" multiple outlet strip. Both units have a single-stage spike filter and provide protection to each outlet. These two units are designed to protect your equipment from low energy voltage spikes commonly caused by electric motor startups and shutdowns.

MODEL DG-115P SPECIFICATIONS
Outlets: Includes one "U" ground duplex (2 outlets). **Male load plug:** Conveniently plugs into any 120 volt outlet (normal house current). **Voltage spike protection:** Single stage filter. Pilot light shows when unit is operable. **Overload protection:** 15 amp circuit breaker. **Case:** Fabricated steel with baked-on beige finish. **Component colors:** Outlets — beige, circuits breaker — beige, male load plug — black, pilot light — white. **Case dimensions:** 4-27/32"L x 3-1/4"W x 1-5/16"D. **Mounting:** Plugs into wall receptacle. **Shipping weight:** 1-1/2 lbs.

MODEL DG-115S SPECIFICATIONS
Outlets: Includes 3 "U" ground duplexes (6 outlets). **Power supply cord:** 9 foot 14/3 SJT. **Voltage spike protection:** Single stage filter on each duplex. **Switch:** Master switch with built-in amber pilot light. **Overload protection:** 15 amp circuit breaker. **Case:** Seamless steel case with baked-on beige finish. **Component colors:** Outlets — beige, circuit breaker — gray, power supply cord — beige, switch — beige. **Case dimensions:** 11-15/16"L x 2-5/16"W x 1"D. **Mounting:** Keyhole slot flush mounting — 10-15/16" center. **Shipping weight:** 2 lbs.

GENERAL ELECTRIC SPIKE PROTECTOR

MODEL GESP-753 OUR PRICE **$29.95**

DESCRIPTION
Now you can plug into the double-duty protection for your sensitive personal computer! General Electric's GESP-753 Voltage Surge Suppressor guards valuable equipment two ways: against voltage spike and noise—all in one device!
With a GESP-753 Voltage Surge Suppressor, you can also guard against potentially damaging transient voltages and prevent the generation of additional noise from being sent down the power line by your equipment. Reduce unexplained data loss block interference that raises havoc with audio or TV reception.

SGL WABER® LINEGARD®

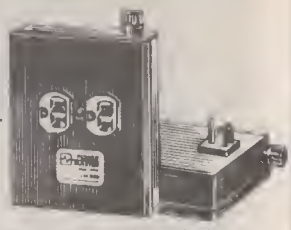
MODEL LG-10

OUR PRICE **$19.95**

DESCRIPTION
LINEGARD® protects against brief, high voltage spikes that occur in any electrical system. These spikes can damage electronic components LINEGARD® acts as a "shock absorber" by limiting potentially damaging spikes, without interfering with normal current flow. LINEGARD® is easy to use. Just plug it into any 15A, 125VAC outlet, then plug your computer, TV or other electronic equipment into the LINEGARD®

SGL WABER POWER MASTER

MODEL LM-2100 OUR PRICE **$79.95**



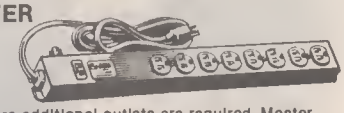
DESCRIPTION
A wall plug-in unit for use at wall receptacle providing two filtered outlets. 3 stage spike filter and 3 stage noise filter prevent spikes and noise. Each outlet has isolated spike protection. Noise filtration provided in the transverse mode. Unit designed for two wire (hot and neutral) devices requiring filter protection.

SPECIFICATIONS
Outlets: One "U" ground duplex (2 outlets); **Male Load Plug:** Plugs into 110/120 volt (normal house current) outlet; **Case:** Fabricated steel with baked-on black finish; **Overload Protection:** 15 amp fuse (slow-blow); **Voltage Spike and Noise Protection:** Six-stage filter network (each outlet has isolated spike protection); **Component Colors:** Outlets-black; fuse holder-black; male load plug-black; **Electrical Phase:** Single; **Case Dimensions:** 5-1/2"L x 4-1/2"W x 1-5/16"D; **Mounting:** Plugs into wall receptacle; **Shipping Weight:** 4 lbs.

SGL WABER POWER MASTER

MODEL LM-2200

OUR PRICE **$119.95**



DESCRIPTION
Has 8 outlets with power supply cord. Ideal where additional outlets are required. Master on/off switch with built-in amber light controls power to outlet. 3 stage spike filter and 3 stage noise filter prevent spikes and noise. Each outlet has isolated spike protection. Noise filtration provided in the transverse mode. Unit designed for two wire (hot and neutral) devices requiring filter protection.

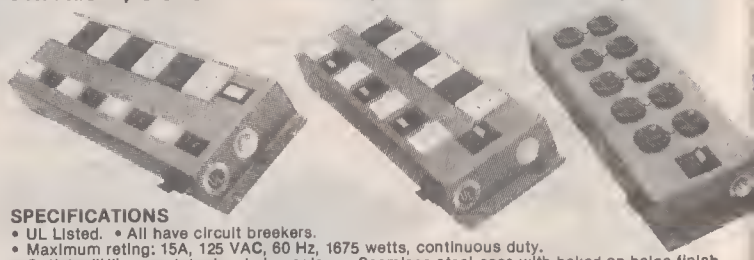
SPECIFICATIONS
Outlets: 4 "U" ground duplexes (6 outlets); **Power Supply Cord:** 9 foot 14/3 SJT; **Case:** Fabricated steel with baked-on beige finish; **Component Colors:** Outlets-beige, power supply cord-beige, master on/off switch-beige housing with built-in amber pilot light; fuse holder-black; **Overload Protection:** 15 amp fuse (slow-blow); **Voltage Skip and Noise Protection:** Six-stage filter network (each outlet has isolated spike protection); **Dimensions:** 20"L x 2"W x 1"D; **Mounting Dimensions:** End slots 19-3/4" centers; **Electrical Phase:** Single; **Shipping Weight:** 6 lbs.

SGL WABER MULTIPLE OUTLET STRIPS

MODEL UL25PCB-6 OUR PRICE **$69.95**

MODEL UL25CB-6 OUR PRICE **$52.95**

MODEL UL800CB-6 OUR PRICE **$44.95**

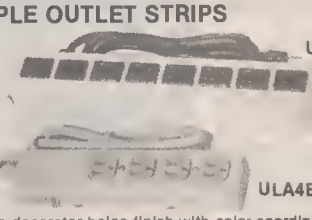


SPECIFICATIONS
- UL Listed. • All have circuit breakers.
- Maximum rating: 15A, 125 VAC, 60 Hz, 1675 watts, continuous duty.
- Outlets: "U" ground duplex, beige color. • Seamless steel case with baked-on beige finish.

DESCRIPTION
Three models comprise the deluxe group. Model UL800CB has 10 "U" ground outlets controlled by a master on-off switch. A pilot light shows when power is on.
The Models UL25CB and UL25PCB provide 7 color keyed switch outlet groups, circuit breaker, master switch, and master pilot light. The "P" series has switches with built-in pilot lights. All deluxe models are available in 6 foot cord-sets.
Shipping weight is 3 pounds for 6 foot cord-set and 4 pounds for 15 foot cordset models.
Size is 13-3/6"L x 4-1/6"W x 1-1/2"H.

SGL WABER MULTIPLE OUTLET STRIPS

The Premier Group



DESCRIPTION
The Premier Group of multiple outlet strips is ideal for organizing and providing electrical power for all your plug-in micro-computer and word processing equipment. Use a multiple outlet strip to eliminate expensive professional installation costs. And each model has a unique push-to-reset safety circuit breaker button to prevent overloading. All units feature a decorator beige finish with color-coordinated components. Choose from six models, all utilizing 120 volt current.

Model	Outlets	Master Switch with pilot light	Cord length	Circuit breaker	Our Price
ULA4E-6	4	No	6 ft.	Yes	$19.95
ULA4TME-6	4	Yes	6 ft.	Yes	24.95
ULA6E-6	6	No	6 ft.	Yes	26.00
ULA6TME-6	6	Yes	6 ft.	Yes	27.95

BP SAFETY GUARD

SAFE GUARD YOUR COMPUTER, TV GAMES, VCR, TV's and APPLIANCES

MODEL COMP-731

OUR PRICE **$19.95** 10 FOR **$180.00**

FEATURES
- Outlet strip with 6 receptacles. • 15 amps.
- Reset mini breaker. • Overload Protected.
- 6 Ft. cord. • UL listed.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

EMPTY TOOL CASES, KITS & POUCHES

CHICAGO CASE CO. POLYETHYLENE TOOL CASE

With Two Pellets (Empty)

MODEL ST-6

OUR PRICE $99.95

Dimensions: 18" x 13" x 6".

MODEL ST-8

OUR PRICE $109.95

Dimensions: 18" x 13" x 8".

FEATURES

- High impact polyethylene shell.
- Extra heavy-duty guage aluminum frame with interlocking tongue end groove design.
- All hardware riveted through frame.
- Full length piano hinge.
- Steel core padded handle.
- Presto spring loaded drawbolt locks.
- Polyethylene feet molded into outer shell.
- Gray or black with two pellets.

CHICAGO CASE CO. POLYETHYLENE TOOL CASE

WITH DOUBLE WING PALLETS (EMPTY)

MODEL ST-10

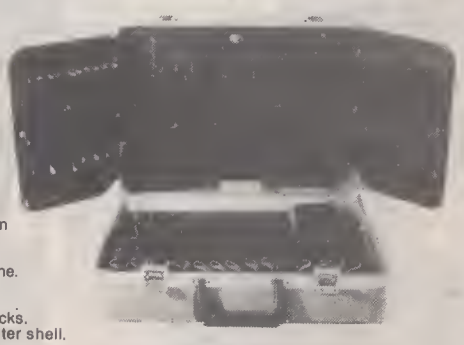
OUR PRICE $129.95

DIMENSIONS: 18" x 13" x 6".

MODEL ST-12

OUR PRICE $139.95

DIMENSIONS: 18" x 13" x 8".



FEATURES

- Two pellets.
- High impact polyethylene shell.
- Extra heavy-duty guage aluminum frame with interlocking tongue end groove design.
- All hardware riveted through frame.
- Full length piano hinge.
- Steel core padded handle.
- Presto spring loaded drawbolt locks.
- Polyethylene feet molded into outer shell.
- Gray or black with two pellets.

FORDHAM TOOL CASE SPECIAL!

With Double Pallets (Empty)

MODEL TC-6800

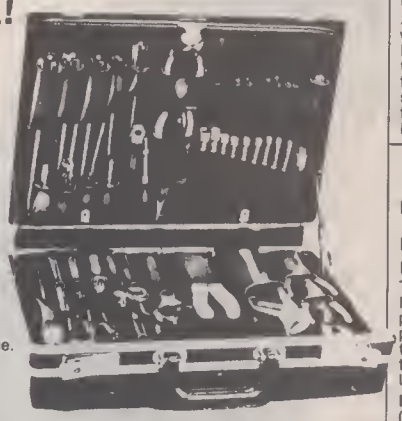
OUR PRICE $69.95

DESCRIPTION

Our most popular case. Compact, versatile design is perfect for electronics, computer and office equipment technicians. Steel core padded handle for carrying comfort. Pallets equipped with 50 pockets and specifically designed for interchangeable nut driver and hex key blades. Case is black.
18" x 13" x 5-3/4".

FEATURES

- Constructed of heavy guage ABS material.
- Fiberglass reinforced corners.
- One piece extruded aluminum radius valence.
- All nickel plated steel hardware attached to aluminum valence for added strength.
- Interchangeable positive closure locks.
- Three hinges for heavy duty use.



KLEIN DEEP-TOP TOOL BOX

MODEL 54404

OUR PRICE $27.95

DESCRIPTION

High hip-roof permits extra-deep tote tray for bulky drills, long hand tools, or a large wrench set. Tray has big handle, no partitions. Two drawbolts plus hasp and staple. Red baked enamel finish. Dimensions: 19 3/4" (50 cm) long, 7" (18 cm) deep, 8" (20 cm) high.

KLEIN JUMBO FOUR-TRAY TOOL BOX

MODEL 54405

OUR PRICE $57.95

DESCRIPTION

Four generous cantilever trays open wide for full access to bottom of box. Two top trays have hinged covers to keep parts and tools from spilling out. Three special reinforcing straps on box bottom make it strong enough to handle big loads. Trays move smoothly on heavy, plated metal links. Top trays have socket dividers. Extra-high hip-roof cover. Two drawbolts plus hasp and staple for locking. Brown baked enamel wrinkle finish. Dimensions: 18" (46 cm) long, 10 1/8" (26 cm) deep, 12 3/4" (32 cm) high.

KLEIN PORTABLE TWO-DRAWER BOX

MODEL 54407

OUR PRICE $56.00

DESCRIPTION

Carries like a hand box, but functions like a chest. Keeps tools separated, easier to see and reach. Full-size tote tray with socket divider and easy-grip handle. Two drawers work on heavy-duty slides and lock automatically when cover is closed. Double drawbolts plus center hasp and staple. Drawers measure 17-7/8" X 7-3/8" X 2-1/4" (45 X 19 X 6 cm). Box dimensions: 20" (51 cm) long, 8-1/2" (22 cm) deep, 9-1/2" (24 cm) high.

PADDED ZIPPER CASE (Empty)

MODEL ZP-5

REG. $59.95

OUR PRICE $39.95

Dimensions: 10" x 13" x 2-1/2" (with retractable handles).

DESCRIPTION

Ideal for the technician or supervisor who needs a compliment of small tools. Padded sides protect tools and give a professional appearance. Each model has 29 pockets. Available in brown. Also with or without handles.

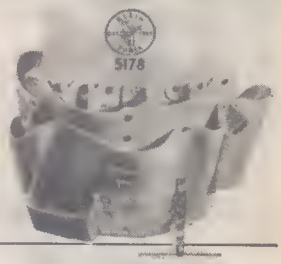
KLEIN TOOL POUCH

MODEL 5178

OUR PRICE $24.95

DESCRIPTION

A roomy pouch for electricians, servicemen and maintenance workers. Five large utility pockets for a wide variety of tools such as pliers, wrenches, wire cutters. Smaller pockets for screwdrivers, scratch awls. Knife snap, chain tape thong and tape rule holder are conveniently located on the front.



KLEIN TOOL POUCH

MODEL 5168 **OUR PRICE $13.95**

MODEL 5168T **OUR PRICE $14.95**

DESCRIPTION

This extra-spacious tool carrier is contoured to fit the hip for added comfort. Large utility pocket provides ample room for assorted tools. A smaller utility pocket, two plier pockets, two screwdriver pockets, a chain tape thong and knife snap are provided. Available in slotted or tunnel loop style. Made of a combination of leather and Ultra-Hyde.

Model 5168 — Slotted pouch. Fits belts up to 2" wide (51 mm). Overall size: 9" X 11" (23 X 28 cm).

Model 5168T — Same as above but with tunnel loop to fit belts up to 3" wide (76 mm).

KLEIN TOOL POUCH

MODEL 5190 **OUR PRICE $13.95**

DESCRIPTION

Here is a versatile pouch favored by many telephone installers. This pouch is riveted throughout to assure long life. Ten separate compartments provide places for a wide variety of pliers, screwdrivers and other tools. Has ring and tape thong. Slotted pouch. Fits belts up to 1 3/4" wide (44 mm). Made of a combination of leather and Ultra-Hyde. Nominal overall size: 6" X 8 3/4" (15 X 22 cm).

COMPLETE TOOL CASES

FORDHAM COMPACT TOOL KIT With A Padded Zipper Case

MODEL FTK-16 OUR PRICE $179.95

DIMENSIONS

12" x 10" x 2-1/2".

DESCRIPTION

Ideal for field engineers, radio-TV repairmen and electronic technicians. This kit is designed for the professional electronic technician or field engineer. Basic tools in the kit are from Xcelite allowing for additions to be added quite easily. The tools are furnished in an attractive padded zipper case.

THESE FINE TOOLS ARE INCLUDED

6454—Alignment tool set 5 pcs.
9336—Burnishing tool.
K-22—Knife, precision type.
99-2—3" plastic handle.
99-1—4" plastic handle.
99-9—1/4" nutdriver blade.
99-10—5/19" nutdriver blade.
99-12—3/9" nutdriver bladee.
72CG—5" chain nose plier.
52CG—6" long nose side cutting plier.
64CG—4-1/4" diagonal cutter plier.
53CG—9" utility type plier.
99-611—Regular screwdriver 3/19" blade.
99-250—Regular screwdriver 1/4" blade.
99-312—Regular screwdriver 5/16" blade.
99-921—#1 Phillips blade screwdriver.
99-922—#2 Phillips blade screwdriver.
X100—#0 Phillips miniature screwdriver.
TS900—Jeweler type .025 tp 0.1" screwdriver set.
WP-25—Weller soldering iron.
DS-1—60/40 solder coil.
9073—Fork tip end brush solder aid.
99-61-99-96—6 pcs. .048-.096 spline driver blade set.
101-S—Wire stripper with adjustable stop screw end spring.
44CG—4" adjustable wrench.
SLK-7—7 pcs. Allen hex key type wrench set.
VOM test instrument—2K per volt sensitivity.
ZP-5—Padded zipper case with retractable handles.

FORDHAM SOLDERING & SERVICEMAN'S AID KIT

MODEL FTK-17 OUR PRICE $169.95

THESE FINE QUALITY TOOLS ARE INCLUDED

US140—Universal Soldapult
9069—Reamer & Screper Tip
9074—Brush & Screper Tip
AA—Solder Wick
AB—Solder Wick
BB—Solder Wick
FH-90—Desoldering Tool
WM120—Pencil Thin Soldering Station
91CG—Extra Thin Long Needle Nose
106CG—Diagonal Full-Flush Cutting Pliers
101S—Wire Stripper & Cutter
HD100A—Heavy Duty Clip Leads
K22—Knife
DS-1—Dispenser Pack Solder
BCR10—Solder Cream
5090P—Shockproof Inspection Mirror
99-1—Handle
99-8—1/4" Nutdriver Blade
99-10—5/16" Nutdriver Blade
99-12—3/9" Nutdriver Blade
99-14—7/19" Nutdriver Blade
99-921—#1 Phillips Screwdriver Blade
99-922—#2 Phillips Screwdriver Blade
99-125—1/9" Slotted Screwdriver Blade
99-250—1/4" Slotted Screwdriver Blade
DP-1—Pen Lite
99X10—10" Extension
ZP-5—Padded zipper case with retractable handles.
13 x 10 x 2-1/2".

FORDHAM
DELUXE SOLDERING & ELECTRONIC TECHNICIAN SERVICE KIT

MODEL FTK-18 OUR PRICE $199.95

THESE FINE QUALITY TOOLS ARE INCLUDED

WP40—Weller Soldering Iron
9073—Brush & Forked Tip
9075—Straight Reamer & Forked Tip
AA—Solder Wick
AB—Solder Wick
BB—Solder Wick
XD16—Extractor Pliers
DS1—Solder (Dispenser Pack)
DS40—Professional Desoldering/Repair Tool
91CG—Extra Thin Long Needle Nose
101S—Wire Stripper & Cutter
109CG—Diagonal Full-Flush Cutting Pliers
90V—Heat Sink
US140—Desoldering Tool
BCR10—Solder Cream
K22—Knife
HD100A—Clip Leads
DP-1—Pen Lite
99-9—3/19" Nutdriver Blade
99-7—7/32" Nutdriver Blade
99-9—1/4" Nutdriver Blade
99-9—9/32" Nutdriver Blade
99-10—5/16" Nutdriver Blade
99-11—11/32" Nutdriver Blade
99-12—3/8" Nutdriver Blade
99-911—3/19" Screwdriver
99-250—1/4" Slotted Screwdriver Blade
99-921—#1 Phillips Screwdriver Blade
99-622—#2 Phillips Screwdriver Blade
99X5—4" Extension
99-1—Regular Handle For 99 Series
ZP-5—Padded zipper case with retractable handles.
13 x 10 x 2-1/2".

FORDHAM COMPUTER & ELECTRONIC TECHNICAL TOOL KIT

MODEL FTK-24

OUR PRICE $499.95

THESE FINE QUALITY TOOLS ARE INCLUDED

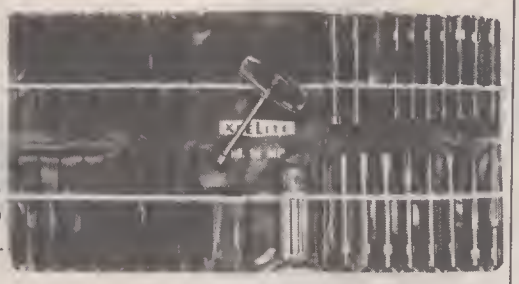
WM120—Weller Soldering Iron
52CG—Long Nose Pliers
101S—Wire Stripper & Cutter
109CG—Diagonal Full Flush Cutting Pliers
91CG—Extra Thin Long Needle Nose
72CG—Midget Chain Nose
X100—-1 Phillips
R3169—3/19" Screwdriver
R-194—1/8" Screwdriver
X101—#2 Phillips
R5169—5/19" Screwdriver
R-144—1/4" Screwdriver
9725—Illuminated Dental Mirror
DS-017—Deluxe Soldevac
XD19—Extractor Pliers
99-1—Handle
99-61 thru 99-96—Bristol 9-Flute Multiple Spline Driver Blade Set
99-21 thru 99-29—Allen Hex Socket Type Screwdrivers
L9M—1/4" Extra Long Magnetic Nutdrivers
L10M—5/16" Extra Long Magnetic Nutdrivers
K22—Knife
XL75—Midget Ratchet Offset Kit
TS900—Precision Screwdriver Kit
7950—Three GC Tweezer Kit
HD100A—Heavy Duty Clip Leads
99-6—3/16" Nutdriver Blade
99-7—7/32" Nutdriver Blade
99-9—1/4" Nutdriver Blade
99-9—9/32" Nutdriver Blade
99-10—5/19 Nutdriver Blade
99-11—11/32" Nutdriver Blade
99-12—3/9" Nutdriver Blade
99-14—7/18" Nutdriver Blade
99-16—1/2" Nutdriver Blade
FH-90—Desoldering Tool
90V—Heat Sink
BCR10—Solder Cream
DS-1—Dispenser Pack Solder
AA—Solder Wick
AB—Solder Wick
BB—Solder Wick
DP-1—Pen Lite
42-H—Xcelite Scizers
79C—Combination Slip-Joint Pliers
DP51—B&K Digital Probe
MOS 1416—DIP IC Insertion Tools with Pin Straightener (14-19 Pin)
MOS 2429—DIP IC Insertion Tools with Pin Straightener (24-29 Pin)
INS 1416—DIP IC Insertion Tools with Pin Straightener (14-19 Pin)
TC-6800—Tool Case
DVM-638—New Scope Meter!

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

XCELITE SERIES "99" HANDLES, BLADES AND SERVICE KITS

MULTI-PURPOSE TOOL KIT
MODEL 99-MP
OUR PRICE $89.95

DESCRIPTION
40-piece kit contains 99-1 (regular) and 99-4 (tee) handles, nine regular nutdrivers (99-8 thru 99-16), 99-8M magnetic nutdriver, nine Allen hex type screwdrivers (99-20 thru 99-26), nine Bristol Multiple Spline screwdrivers (99-81 thru 99-89), four slotted screwdrivers (99-125, 99-811, 99-250, 99-312), three Phillips screwdrivers (99-620 thru 99-822), reamer (99-38), extension blade (99-X5), canvas case (99 MPK).



XCELITE MULTI-PURPOSE TOOL KIT
MODEL TKX-11
OUR PRICE $44.95

DESCRIPTION
The versatile kit contains 11 quality tools, perfect for all types of routine repair and simple do-it-yourself projects. Everything comes neatly packaged in an attractive, easy to store case.

CONTENTS
- R144—1/4" x 4" round blade screwdriver.
- R-164—1/6" x 4" round blade screwdriver.
- X101—#1 Phillips x 3" screwdriver.
- 6—1/4" hex nutdriver.
- P12S—#0 Phillips x 2" screwdriver.
- 51CG—6" long nose plier w/side cutter.
- 46CG—6" adjustable wrench.
- S-141—1/4" x 1-1/4" stubby square blade screwdriver.
- 100-X—wire stripper and cutter adjustable screw stop.
- TM120—1/2" x 10" metric/english tape rule.
- 76C-6" combination plier, chrome plated.

XCELITE SERVICE MASTER TOOL KIT
MODEL 99-SM
OUR PRICE $69.95

DESCRIPTION
24-piece kit contains 99-1 (regular) and 99-3 (stubby) handles, nine regular and three stubby nutdrivers (99-8 thru 99-16), two slotted screwdrivers (99-811, 99-250), two Phillips screwdrivers (99-821 and 99-822), one reamer (99-38), extension blade (99-X10), 6" long nose cushion grip plier (52CG), 5" diagonal cushion grip plier (55CG), 6" adjustable wrench (46CG), plastic-coated canvas case (99SMK).

WELLER MINI-SHOP KIT
MODEL 601K
OUR PRICE $54.95

DESCRIPTION
46-piece kit enables craftsman, hobbyist, or home repairman to brush, clean, polish, sand, shape, grind, sharpen, drill, cut, rout, deburr . . . to handle hundreds of jobs with a single, compact, comfortably balanced power unit. Precision-wound permanent magnet motor with 26,000 RPM output speed. 120V, 1.1 amp, 60 Hz, with 3-wire cord only. Plastic carrying case. Includes all accessories listed at right except safety goggles and replacement motor brushes. Booklet illustrates use of each accessory and has order form for replacements. Packed individually or 3/case.

XCELITE ROLL KIT
MODEL 99-PR
OUR PRICE $33.95

DESCRIPTION
Contains nine regular nutdrivers (99-6, 7, 8, 9, 10, 11, 12, 14 and 16), 99-611 and 99-250 (slotted) and 99-821 and 99-822 (Phillips) screwdriver blades, 99-1 handle (regular), 99K plastic fabric case.

WELLER MINI-SHOP KIT
MODEL 621K
OUR PRICE $47.95

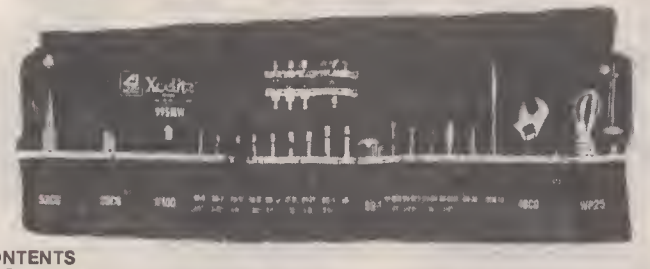
DESCRIPTION
This 21-piece Weller® Mini-Shop Kit is a beginner's complete workshop. Power unit has a precision-wound permanent-magnet motor with a 26,000 RPM output speed. 120V, 60 Hz, 1.1 AM rating, with flat, flexible 3-wire cord. Power unit will accept other Weller® Mini-Shop accessories. Std. Pack 6.

CONTENTS

1—MS201	1—MS208	1—MS214	1—MS226
1—MS203	1—MS209	1—MS221	1—MS228
3—MS206	3—MS210	1—MS223	
3—MS207	1—MS212	1—MS225	

XCELITE SERVICE KIT
MODEL 99SMW
OUR PRICE $99.95

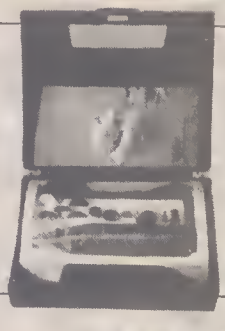
DESCRIPTION
Plastic-coated cover holds 26 piece set of handles and interchangeable screwdriver, nutdriver and other blades plus wire stripper and cutter and Weller® soldering iron.



CONTENTS
- WP25—Soldering Iron.
- ST3—Tip.
- 100-X—Wire stripper and cutter.
- 52CG—6" long nose cushion grip plier.
- 55CG—5" diagonal cushion grip plier.
- 46CG—6" thin-pattern cushion grip adjustable wrench.
- 99-1—Regular handle.
- 99-3—Stubby handle.
- 99-6 thru 99-16—Regular nutdrivers (9).
- 99-821, 99-622—Phillips screwdrivers.
- 99-S6, 99-S10, 99-S12—Stubby nutdrivers.
- 99-611, 99-250—Slotted screwdrivers.
- 99-38—Reamer.
- 99-X10—Extension blade.
- 99MWK—Canvas case.

WELLER VARIABLE SPEED MINI-SHOP KIT
MODEL 641K
OUR PRICE $59.95

DESCRIPTION
Identical to Model 621K except that the power unit's output speed is adjustable by means of a continuously variable, solid-state control knob on the base of the unit, giving speeds from 5,000 to 26,000 RPM. Permits the user to match working speed to the requirements of the material being machined. Weight 2 lbs. 3 ozs. Std. Pack 3.



VACO SUPER TOOL CASE
MODEL 70470
OUR PRICE $119.95

DESCRIPTION
The last word in convenience! 29 popular tools including screwdrivers, nut drivers, electrical tools, and specialty tools — all placed in an attractive vinyl zippered case with sturdy retractable handles for easy carrying. Each tool is held by heavy duty elastic holders making it easy to select the proper tool for the job. Measures 25" x 15-1/2" x 1-3/4".

THESE FINE QUALITY TOOLS ARE INCLUDED
- Hollow Shaft Nut Drivers
- Problem Solving Tools
- Electrical Tools and Testers
- Screwdrivers

TOOL KITS

WELLER XCELITE SERIES "99" PLASTIC VIEW KITS

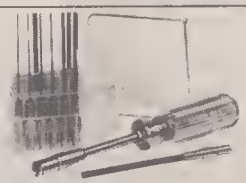
Each set contains e Series "99" regular handle and various Series "99" interchangeable blades and extension. Plastic case with see-thru cover is pocket-size. Flat base permits use es a bench stand.

HEX SOCKET SCREWDRIVER SET

MODEL 99PS-40

OUR PRICE **$21.95**

Includes nine Allen hex type screwdriver blades (99-20 thru 99-26), 99-X5 extension blade, 99-1 handle.



METRIC HEX SOCKET SCREWDRIVER SET

MODEL 99PS-41MM OUR PRICE **$21.95**

Includes seven metric Allen hex type blades (99-71MM thru 99-77MM in min. sizes 1.27, 1.5, 2, 2.5, 3, 4, 5), 99-X5 extension blede, 99-1 handle and plastic case with see-thru cover.

BALLPOINT HEX SOCKET SCREWDRIVER SET

MODEL 99PS-40BP OUR PRICE **$32.95**

Includes nine Ballpoint Allen hex type screwdriver blades (99-20BP thru 99-26BP), 99-X5 extension blade, 99-1 handle.

METRIC BALLPOINT HEX SOCKET SCREWDRIVER SET

MODEL 99PS-41MMBP

OUR PRICE **$27.95**

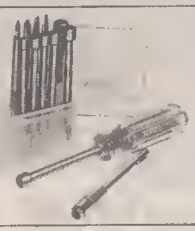
Includes seven screwdriver blades (99-71MMBP thru 99-77MMBP in mm. sizes 1.27, 1.5, 2, 2.5, 3, 4, 5), 99-X5 extension blade, 99-1 handle, and plastic cese with see-thru cover.

NUTDRIVER/SCREWDRIVER SET

MODEL 99PS-50

OUR PRICE **$27.95**

Includes seven regular nutdriver blades (99-6 thru 99-12), two slot tip screwdriver blades (99-811 end 99-250), two Phillips screwdriver blades (99-821 and 99-822), 99-X5 extension blade, 99-1 handle.



METRIC NUTDRIVER SET

MODEL 99PS-51MM

OUR PRICE **$29.95**

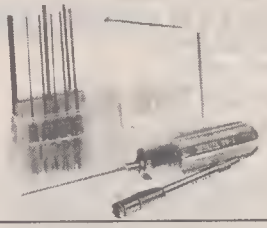
Includes 10 metric nutdriver blades (99-4 thru 99-11 in mm. sizes 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11), 99-X5 extension blade, 99-1 handle, and plastic case with see-thru cover.

BRISTOL MULTIPLE-SPLINE TYPE SCREWDRIVER SET

MODEL 99PS-60

OUR PRICE **$21.95**

Includes nine Bristol Multiple-Spline type screwdriver blades (99-61 thru 99-69), 99-X5 extension blade, 99-1 handle.



SCRULOX® SCREWDRIVER SET

MODEL 99SL

OUR PRICE **$14.95**

Contains four Scrulox screwdriver blades for square recess screws (99SL 0, 1, 2, 3), one slotted blade (99-250), 99-1 handle (regular).

MINI-DRIVER KIT

MODEL M-60

OUR PRICE **$7.95**

Contains one Phillips screwdriver (#00), five slotted screwdrivers (.040", .055", .070", .080", .100"), torque handle end cese.

WELLER XCELITE COMPACT CONVERTIBLE NUTDRIVER AND SCREWDRIVER SETS

Black plastic torque amplifier handle (1" x 3-1/8") slips over handles of pocket size (3-1/2") nutdrivers and screwdrivers. Provides larger grip, extends reach and increases driving power to that of standard size tools. Plastic case with see-thru cover fits pocket, stands upright on bench.

SCREWDRIVER/ NUTDRIVER SET

MODEL PS-7

OUR PRICE **$13.95**

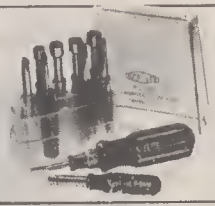
Contains two nutdrivers (1/4" and 5/16"), two slot tip screwdrivers (3/16" and 3/32"), two Phillips screwdrivers (#0 and #1), torque handle.

SCREWDRIVER/NUTDRIVER SET

MODEL PS-130

OUR PRICE **$19.95**

Contains two Phillips screwdrivers (#1 and #2), three sloted screwdrivers (1/8", 3/16" and 1/4"), five nutdrivers (3/16", 1/4", 5/16", 11/32" and 3/8"), torque handle.

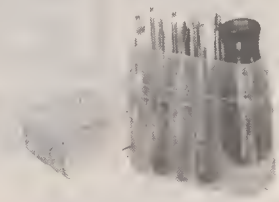


SCREWDRIVER SET

MODEL PS-88

OUR PRICE **$15.95**

Contains five slot tip screwdrivers (3/32", 1/8", 5/32", 3/16", 1/4"), three Phillips screwdrivers (#0, 1, 2), torque handle.

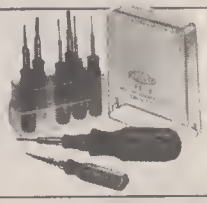


HEX SOCKET SCREWDRIVER SET

MODEL PS-89

OUR PRICE **$14.95**

Contains eight Allen hex type screwdrivers (hex sizes .028", .035", .050", 1/16", 5/64", 3/32", 7/64", 1/8"), torque handle.



METRIC HEX SOCKET SCREWDRIVER SET

MODEL PS-90MM

OUR PRICE **$16.95**

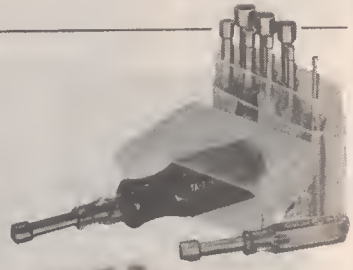
Contains eight drivers (hex sizes .89mm, 1.27mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm), torque handle.

NUTDRIVER SET

MODEL PS-120

OUR PRICE **$18.95**

Contains 10 color coded nutdrivers (3/32" thru 3/8"), torque handle.



METRIC NUTDRIVER SET

MODEL PS-121MM

OUR PRICE **$22.95**

Contains 10 drivers (hex sizes 3mm, 3.5mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm), torque handle.

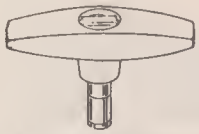
XCELITE HANDLES AND SCREWDRIVERS

DESCRIPTION

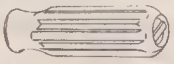
Series "99" handles will accept more than 60 nutdriver, screwdriver and special purposes shafts and blades. Plastic handles have a unique spring device that holds blades firmly yet permits quick, easy insertion and removal.

HANDLES

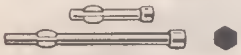
MODEL	DESCRIPTION	PRICE
99-1	Regular (1-1/16"x4-1/6")	$ 2.95
99-2	Junior (1"x3-1/6")	2.95
99-3	Stubby (1-1/16"x2")	2.95
99-4	Tee (1"x3-3/8")	3.50
99-1R	Reversible ratchet	18.95
99-4R	Reversible Tee ratchet	15.95



99-4R Tee ratchet



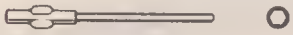
99-1R Reversible ratchet



NUTDRIVERS
(Stubby working length 1-3/6")
Regular and magnetic working length 3-5/6" or 92.06mm, except where otherwise noted

99-5	3/16"	$2.25
99-7	7/32"	2.25
99-6	1/4"	2.25
99-S8	11/4" Stubby	2.25
99-9	9-32"	2.25
99-10	5/16"	2.25
99-S10	5/16" Stubby	2.25
99-11	11/32"	2.25
99-12	3/6"	2.25
99-S12	3/6" Stubby	2.25
99-14	7/16"*	2.95
99-16	1/2"*	2.95
99-6M	1/4" Magnetic	2.95
99-10M	5/16" Magnetic	2.95
99-4MM	4mm	2.95
99-4.3MM	4.5mm	2.95
99-5MM	5mm	2.95
99-5.5MM	5.5mm	2.95
99-6MM	6mm	2.95
99-7MM	7mm	2.95
99-8MM	6mm	2.95
99-9MM	9mm	2.95
99-10MM	10mm*	2.95
99-11MM	11mm*	2.95

*Working length 4" (101.60mm)



ALLEN HEX SOCKET TYPE SCREWDRIVERS
(Working length 4" or 101.50mm)

99-20	.050"	$2.50
99-21	1/16"	2.50
99-22	5/64"	2.50
99-23	3/32"	2.50
99-764	7/64"	2.50
99-24	1/8"	2.50
99-964	9/64"	2.50
99-25	5/32"	2.50
99-26	3/16"	2.50
99-71MM	1.27mm	2.50
99-72MM	1.5mm	2.50
99-73MM	2mm	2.50
99-74MM	2.5mm	2.50
99-75MM	3mm	2.50
99-76MM	4mm	2.50
99-77MM	5mm	2.50

BRISTOL 6-FLUTE MULTIPLE-SPLINE SCREWDRIVERS
(Working length 4")

MODEL	DESCRIPTION	PRICE
99-61	.046"	$2.50
99-62	.060"	2.50
99-63	.069"*	2.50
99-64	.072"	2.50
99-65	.076"	2.50
99-66	.096"	2.50
99-67	.111"	2.50
99-68	.145"	2.50
99-69	.183"	2.50

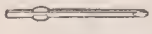
*4-flute

SLOTTED SCREWDRIVERS
(Working length 3-7/6")

99-125	1/8"	$2.50
99-811	3/16"	2.50
99-250	1/4"	2.50
99-312	5/16"	2.50

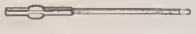
PHILLIPS SCREWDRIVERS
(Working length 3-7/8")

99-620	#0	$2.50
99-621	#1	2.50
99-822	#2	2.50



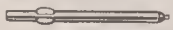
POZIDRIV® SCREWDRIVERS
(Working length 3-7/6")

99-63-1	#1	$4.00
99-63-2	#2	4.00
99-63-3	#3	4.00



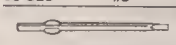
BALL POINT ALLEN HEX SOCKET TYPE SCREWDRIVERS
2.25(Working length 4" or 101.60mm)

99-20BP	.050"	$3.65
99-21BP	1/16"	3.85
99-22BP	5/64"	3.65
99-23BP	3/32"	3.65
99-764BP	7/64"	3.65
99-24BP	1/6"	3.55
99-964BP	9/64"	3.65
99-25BP	5/32"	3.65
99-26BP	3/16"	3.55
99-71MMBP	1.27mm	3.65
99-72MMBP	1.5mm	3.65
99-73MMBP	2mm	3.65
99-74MMBP	2.5mm	3.65
99-75MMBP	3mm	3.55
99-75MMBP	4mm	3.65
99-77MMBP	5mm	3.65



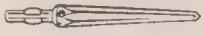
SCRULOX® SCREWDRIVERS
(Working length4")

99-SL0	#0	$2.50
99-SL1	#1	2.50
99-SL2	#2	2.50
99-SL3	#3	2.50



CLUTCH HEAD SCREWDRIVERS
(Working length 3-7/6")

99-G532	5/32"	$2.80
99-G316	3/16"	2.60



REAMER
(Working length 4-1/6")

99-38	1/6" to 3/6"	$6.25

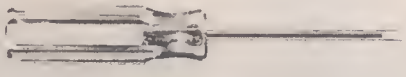
EXTENSIONS

99-X5	4"	$3.50
99-X10	7"	3.50

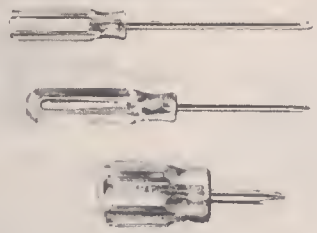
XCELITE FREARSON (REED & PRINCE) TYPE

Model No.	Blade Diam.	Blade Length	Overall Length	Our Price
RP101	3/16"	3"	6-5/6"	$3.00
RP102	1/4"	4"	6-1/6"	3.75

Round blade, fixed handle screwdrivers can be furnished (optionally at extra cost) with blades which have been insulated by plastic dip-coating.



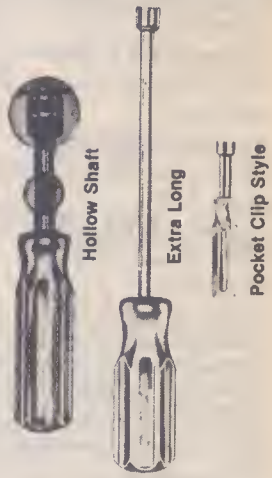
Model No.	Blade Diam.	Blade Length	Overall Length	Our Price
POCKET CLIP STYLE				
R3322		2"	4-1/4"	$1.25
R3323	3/32"	3"	5-1/4"	1.40
R3324		4"	6-1/4"	1.65
R161	1/6"	2"	4-1/4"	1.65
R163		3"	5-1/4"	1.65
REGULAR				
R162		2"	4-5/6"	$1.35
R164		4"	6-5/6"	1.60
R166	1/6"	6"	6-5/6"	1.90
R166		6"	10-5/6"	2.09
R1810		10"	12-5/8"	2.20
R5323		3"	5-5/6"	1.65
R5324	5/32"	4"	6-5/8"	1.65
R5325		5"	7-5/6"	1.95
R5326		8"	10-5/6"	2.20
R3163		3"	6-5/6"	2.30
R3164		4"	7-5/6"	2.75
R3166	3/16"	6"	9-5/6"	3.00
R3166		8"	11-5/6"	3.25
R31610		10"	13-5/6"	3.75
R144		4"	6-1/6"	3.00
R146	1/4"	6"	10-1/8"	3.25
R148		6"	12-1/6"	3.75
R1410		10"	14-1/6"	4.25
R5164	5-16"	4"	6-1/2"	3.50
R5166		6"	10-1/2"	3.75
R5168	3/8"	6"	12-1/2"	4.25
R366		6"	12-1/2"	5.25



PHILLIPS

Model No.	Point Size	Blade Diam.	Blade Length	Overall Length	Our Price
POCKET CLIP STYLE					
P12S	0	1/3"	2"	4-1/4"	$2.00
STUBBY					
SX101	1	3/16"	1-7/16"	3-7/16"	$2.75
SX102	2	1/4"	1-5/16"	3-3/8"	3.50
REGULAR					
X100	0	1/6"	2"	4-5/6"	$1.95
X101	1	3/16"	3"	6-5/8"	2.80
X108	1	3/16"	6"	9-5/8"	3.30
X102	2	1/4"	4"	8-1/8"	3.50
X103	3	5/16"	6"	10-1/2"	4.95
X104	4	3/6"	6"	12-1/2"	6.45
EXTRA LONG					
X1010	1	3/16"	10"	13-5/8"	$4.50
X1020	2	1/4"	10"	14-1/6"	5.50

NUTDRIVERS



INCH SIZES
(Color-Coded Handles)

DRILLED SHAFT
Midget Pocket Clip Style
(3-1/2" Overall Length)

Number	Handle Color	Hex Opening	Price
P3	Blue	2/32"	$2.20
P4	Red	1/8"	2.20
P5	Amber	5/32"	2.20
P6	Black	3/16"	2.20
P7	Brown	7/32"	2.20
P8	Red	1/4"	2.20
P9	Orange	9/32"	2.20
P10	Amber	5/16"	2.20
P11	Green	11/32"	2.20
P12	Blue	3/6"	2.20

REGUALR
(6-1/8" Overall Length)

5	Black	3/16"	$3.00
7	Brown	7/32"	3.00
8	Red	1/4"	3.00
9	Orange	9/32"	3.00
10	Amber	5/16"	3.00
11	Green	11/32"	3.00
12	Blue	3/6"	3.00

(7" Overall Length)

14	Brown	7/16"	$3.75
15	Red	1/2"	3.75

FULL HOLLOW SHAFT REGULAR
(6-1/4" Overall Length)

Number	Handle Color	Hex Opening	Price
HS6	Black	3/16"	$3.50
HS7	Brown	7/32"	3.50

(7-1/4" Overall Length)

HS8	Red	1/4"	$3.50
HS9	Orange	9/32"	3.50
HS10	Amber	5/18"	3.50
HS11	Green	11/32"	3.50
HS12	Blue	3/8"	3.50
HS14	Brown	7/16"	4.50
HS16	Red	1/2"	4.50
HS18	Orange	9/16"	4.50

EXTRA LONG
(9-1/8" Overall Length)

L5	Black	3/18"	$3.50

(10-1/8" Overall Length)

L8	Red	1/4"	$3.95
L10	Amber	5/16"	3.95
L11	Green	11/32"	3.95
L12	Blue	3/6"	3.95

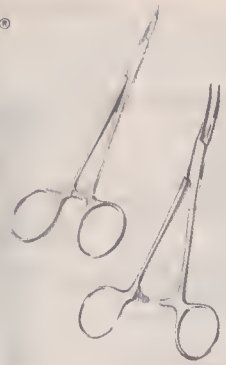
XCELITE SEIZER®

MODEL 42H
OUR PRICE **$14.95**
6" straight nose-serrated.

MODEL 43H
OUR PRICE **$15.95**
6" curved nose-serrated.

MODEL 32H
OUR PRICE **$14.95**
5" straight nose-smooth.

MODEL 33H
OUR PRICE **$14.95**
5" curved nose-smooth.



DESCRIPTION
Clamps wire for soldering, acts as a heat sink and retrieves small parts. Seizers® have two-position snap lock and box-joint construction. Precision machined and polished from tempered stainless steel.

XCELITE MIDGET CHAIN NOSE PLIER

MODEL 77CG size—5"
OUR PRICE **$10.95**
MODEL 72CG size—4-1/2"
OUR PRICE **$10.95**

DESCRIPTION
Slim streamlined pliers with fine serrations or smooth jaws plus slightly beveled inside edges. Excellent for subminiature electronic assembly work. Standard with blue handles and polished head. 72CG has plain jaws.

XCELITE EXTRA THIN LONG NEEDLE NOSE PLIER

MODEL 90CG size—4-1/2"
OUR PRICE **$12.95**

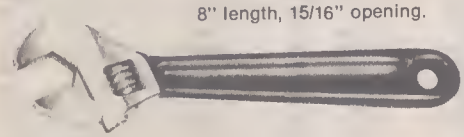
DESCRIPTION
4-1/2" spring-tempered jaws, precision matched to a fine 3/64" x 1/16" point. Plain jaws. Slightly beveled inside edges. Standard with blue handles and polished head.

XCELITE ADJUSTABLE WRENCH

MODEL 44CG OUR PRICE **$9.95**
4" length, 1/2" opening.

MODEL 46CG OUR PRICE **$10.95**
6" length, 3/4" opening.

MODEL 48CG OUR PRICE **$10.95**
8" length, 15/16" opening.



DESCRIPTION
Xcelite's exclusive thin-pattern design permits access where regular adjustables will not fit. Rugged construction, chrome-plated, polished heads, with quick one-hand adjustment and cushion-grip (CG).

XCELITE LONG CHAIN NOSE PLIER

MODEL 82CG size—5-1/2"
OUR PRICE **$10.95**

DESCRIPTION
5-1/2" spring tempered, fine serrated jaws with slightly beveled inside edges are specially designed for gripping small wire and components. Standard with blue handles and polished head.

XCELITE TIP CUTTER WIRING PLIER

MODEL 92CG size—4-1/2"
OUR PRICE **$13.95**
MODEL 69CG size—5"
OUR PRICE **$13.95**

DESCRIPTION
For delicate, intricate, sub-assembly work. Fine serrated tips. Hardened cutting edge near tip for snap cutting No. 22 guage (.025" dia.) and smaller soft copper wire. Standard with blue handles and polished head.

XCELITE SHORT FLAT NOSE PLIER

MODEL 70CG size—4-1/2"
OUR PRICE **$9.95**

DESCRIPTION
4-1/2" light plier for fine work, smooth jaws. Standard with blue handles and polished head.

XCELITE ELECTRONIC SNIPS

MODEL 86CG size—6-1/2"
OUR PRICE **$13.95**

DESCRIPTION
6-1/2" size. Shearing action of 1-1/2" cut pointed blades prevents peaks on fine wires and filaments. Useful also for removing insulation and cutting light sheet metal. Coil spring opens blades, latch holds them closed. Cushion grip handles.

XCELITE STAINLESS FULL-FLUSH DIAGONAL CUTTING PLIER

MODEL 110CG size—4"
OUR PRICE **$24.95**

DESCRIPTION
4" plier designed for cutting and trimming circuit boards and lead wires on capacitors, resistors and other electronic components. Standard with blue handles and satin finish head and shoulders.
Maximum Cutting Specifications:
Soft, Non-Ferrous Wire: .032" dia.
Half Hard Non-Ferrous Wire: .020" dia.

XCELITE ROUND NOSE WIRE LOOP PLIER

MODEL 71CG size—4-1/2"
OUR PRICE **$10.95**

DESCRIPTION
4-1/2" plier. Both sides of nose are carefully rounded, precision ground to small point. Excellent for looping and forming fine wire. Standard with blue handles and polished head.

XCELITE VERY FINE NEEDLE NOSE PLIER

MODEL 87CG size—5-1/2"
OUR PRICE **$11.95**

DESCRIPTION
5-1/2" plier. Fine serrations on jaws. 1-13/16" nose length. Slightly beveled inside edges. Standard with blue handles and polished head.

XCELITE SHORT CHAIN NOSE PLIER

MODEL 162CG size—4"
OUR PRICE **$10.95**

DESCRIPTION
4" plier that is particularly designed for fine, close electrical and mechanical work. Ideal for electricians, jewelers, opticians and hobbyists. Standard with blue handles and polished head.

XCELITE SHORT NOSE TIP CUTTING PLIER

MODEL 73CG size—4-1/2"

OUR PRICE **$16.95**

DESCRIPTION

4-1/2" cutting plier. 30°angle tip cutter with semi-flush edge for cutting in restricted areas In electronic components and for trimming printed circuit boards. Standard with blue handles and polished head.

XCELITE MIDGET FULL-FLUSH CUTTING PLIER

MODEL 84CG size—4"

OUR PRICE **$13.95**

DESCRIPTION

4" cutting plier. Fine tappered nose with back taper at extreme tip. Full-flush cutting edges for cutting No. 20 guage (.032" dia.) and smaller soft copper wire. Snap cuts at extreme tip. Standard with blue handles and polished head.

XCELITE SEMI-FLUSH CUTTING DIAGONAL PLIER

MODEL 98CG size—4"

OUR PRICE **$10.95**

DESCRIPTION

4" cutting plier. Slim round nose design with electronically hardened edges. Most used regular small diagonal cutting pliers for fine work. Will cut No. 20 guage (0.32" dia.) and smaller soft copper wire. Standard with blue handles and polished head.

XCELITE MIDGET SEMI-FLUSH CUTTING PLIERS

MODEL 74CG size—4"

OUR PRICE **$13.95**

DESCRIPTION

4" cutting plier. Fine tapered nose with semi-flush cutting edges for cutting No. 20 guage (.032" dia.) and smaller soft copper wire. Snap cuts at extreme tip. Standard with blue handles and polished head.

XCELITE EXTRA THIN LONG NEEDLE-NOSE PLIER

MODEL 91CG size—6"

OUR PRICE **$12.95**

DESCRIPTION

6" spring-tempered jaws, precision matched to 5/64" at the extreme tip. Fine serrated jaws. Slightly beveled inside edges. Standard with blue handles and polished head.

XCELITE STANDARD DIAGONAL PLIER

MODEL 106CG size—4-1/2"

OUR PRICE **$11.95**

MODEL 107CG size—5"

OUR PRICE **$11.95**

DESCRIPTION

Small round nose diagonal cutting pliers with electronically hardened edges. Primarily for general purpose cutting in the electronics industry. Standard with blue handles and polished head.

XCELITE THIN BENT NOSE PLIER

MODEL 79CG size—5"

OUR PRICE **$14.95**

DESCRIPTION

5" pliers with fine serrated jaws. 60°angle thin bent nose for handling fine wire in close quarters.

XCELITE CUTTING & LOOPING PLIER

MODEL 94CG size—6"

OUR PRICE **$14.95**

DESCRIPTION

6" plier for cutting and forming wire. Cutter near tip for cutting No. 20 guage (.032" dia.) and smaller soft copper wire. Standard with blue handles and polishing head.

XCELITE DIAGONAL FULL-FLUSH CUTTING PLIER

MODEL 108CG size—4-1/2"

OUR PRICE **$15.95**

DESCRIPTION

4-1/2" tappered nose diagonal pliers with back clearance for use in confined areas. Hard-honed full-flush edges with back taper at extreme tip. Heavy pattern joint for long life. Ideal for printed circuit and other electronic applications. Will cut No. 20 guage (.032" dia.) and smaller soft copper wire. Standard with blue handles and polished head.

XCELITE LONG CHAIN NOSE WITH SIDE CUTTER PLIER

MODEL 81CG size—5-1/2"

OUR PRICE **$11.95**

DESCRIPTION

5-1/2" spring tempered fine serrated jaws with hardened jaw surfaces and electronically hardened cutter edges are ideal for electronic subassembly work. Standard with blue handles and polished head.

XCELITE SPECIAL TAPER NOSE DIAGONAL PLIER

MODEL 95CG size—5"

OUR PRICE **$13.95**

DESCRIPTION

5" slim taper nose design with full-flush cutting edges for heavy duty work in electronics industry. Specially designed for close quarters tipcutting. Standard with blue handles and polished head.

XCELITE DIAGONAL CUTTING PLIER

MODEL 109CG size—4"

OUR PRICE **$15.95**

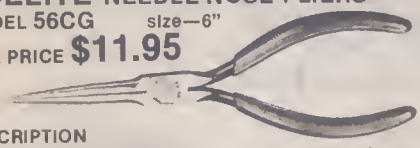
DESCRIPTION

4" precision honed flush-edges and back clearance. Fine tapered nose designed for close cutting No. 24 guage (.020" dia.) and smaller soft copper wire. The very fine tappered nose with back taper at extreme tip is ideal for delicate electronic circuitry work. Standard with blue handles and polished head.

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

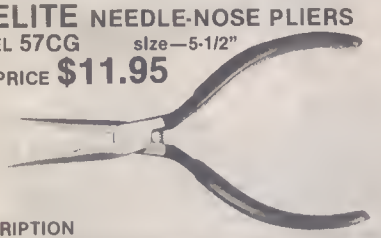
PLIERS

XCELITE NEEDLE-NOSE PLIERS
MODEL 56CG size—6"
OUR PRICE **$11.95**



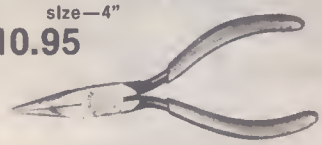
DESCRIPTION
6" size. Long, slim serrated jaws permit entry inaccessible to regular long nose plier.

XCELITE NEEDLE-NOSE PLIERS
MODEL 57CG size—5-1/2"
OUR PRICE **$11.95**



DESCRIPTION
5-1/2" size with fine serrated jaws and coil spring for firm gripping and looping wire.

XCELITE LONG-NOSE PLIERS
MODEL 41CG size—4"
OUR PRICE **$10.95**

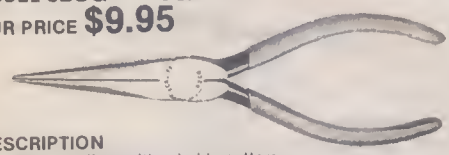


DESCRIPTION
Midget 4" pliers, serrated jaws, without side cutters.

XCELITE LONG-NOSE PLIERS
MODEL 51CG size—6"
OUR PRICE **$10.95**

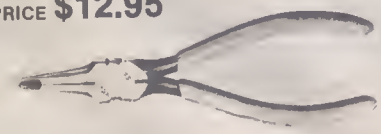
DESCRIPTION
6" long-nose pliers with side cutters.

XCELITE LONG-NOSE PLIERS
MODEL 52CG size—6"
OUR PRICE **$9.95**



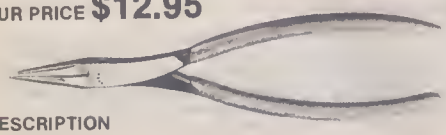
DESCRIPTION
6" long-nose pliers without side cutters.

XCELITE SPECIAL PURPOSE PLIERS
Special Electronic Plier
MODEL 58CG size—6"
OUR PRICE **$12.95**



DESCRIPTION
6" plier with extreme tip for gripping. Sharp 5/16" cutting edges 3/16" back from tip.

XCELITE SPECIAL PURPOSE PLIERS
Chain-Nose Electrician's Pliers
MODEL 59CG size—8"
OUR PRICE **$12.95**

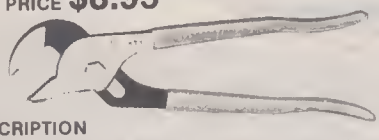


DESCRIPTION
8" plier with long reach and high leverage.

XCELITE UTILITY PLIERS
Ignition Pliers
MODEL 50CG size—5"
OUR PRICE
$9.95

DESCRIPTION
5" midget slip joint with narrow jaws for close-quarter work. 3-jaw opening adjustment to 1/2".

XCELITE UTILITY PLIERS
Tongue & Groove Pliers
MODEL 53CG size—7"
OUR PRICE **$8.95**



DESCRIPTION
7" all-purpose plier with 5-position forged rib lock design and serrated jaws. Maximum opening 1-1/16".

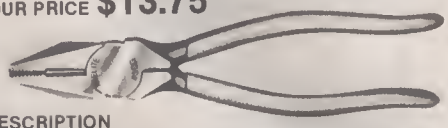
XCELITE UTILITY PLIERS
Tongue & Groove Pliers
MODEL 63CG size—10"
OUR PRICE **$10.95**

DESCRIPTION
10" forged rib lock design and serrated jaws. Adjusts to 4 positions. Maximum opening 1-1/2".

XCELITE SIDE CUTTING PLIERS
MODEL 60CG size—6"
OUR PRICE **$11.95**

DESCRIPTION
6" size with serrated upper and lower jaws for firm gripping.

XCELITE SIDE CUTTING PLIERS
MODEL 68CG size—8"
OUR PRICE **$13.75**

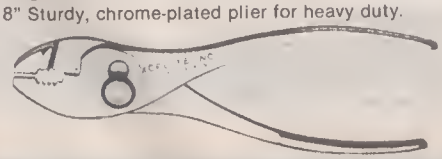


DESCRIPTION
8" size with serrated jaws. Longer size gives grip and leverage for cutting heavy wire.

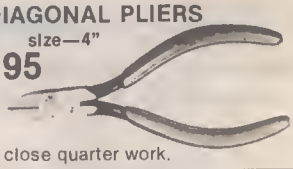
XCELITE COMBINATION SLIP-JOINT PLIERS
MODEL 75C-X size—5"
OUR PRICE **$7.95**
5" Chrome-plated plier in handy small size.

MODEL 76C size—6"
OUR PRICE **$7.95**
DESCRIPTION
6" Chrome-plated plier for general use.

MODEL 78C size—8"
OUR PRICE **$7.95**
DESCRIPTION
8" Sturdy, chrome-plated plier for heavy duty.

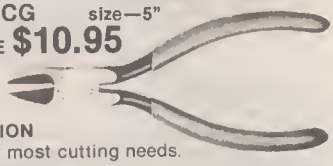


XCELITE DIAGONAL PLIERS
MODEL 54CG size—4"
OUR PRICE **$9.95**



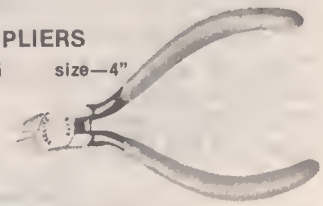
DESCRIPTION
Midget 4" size for close quarter work.

XCELITE DIAGONAL PLIERS
MODEL 55CG size—5"
OUR PRICE **$10.95**



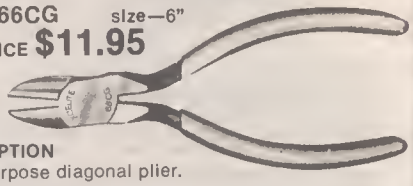
DESCRIPTION
5" plier for most cutting needs.

XCELITE DIAGONAL PLIERS
MODEL 64CG size—4"
OUR PRICE
$13.95



DESCRIPTION
4" long, for fast, clean, easy tip cutting of fine wires in close quarters.

XCELITE DIAGONAL PLIERS
MODEL 66CG size—6"
OUR PRICE **$11.95**



DESCRIPTION
6" all-purpose diagonal plier.

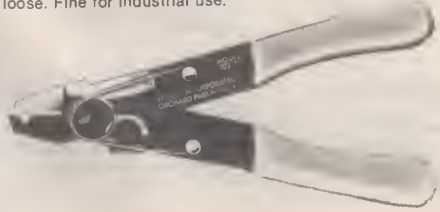
XCELITE DIAGONAL PLIERS
MODEL 67CG size—7"
OUR PRICE **$11.95**

DESCRIPTION
7" diagonal plier for heavy duty cutting.

XCELITE WIRE STRIPPERS ANDCUTTERS
MODEL 100-X OUR PRICE **$4.50**
DESCRIPTION
Has adjustable screw stop for different wire sizes, and cushion grips. Cuts and strips both soild and stranded wire cleanly, neatly. Hardened with ground blades.

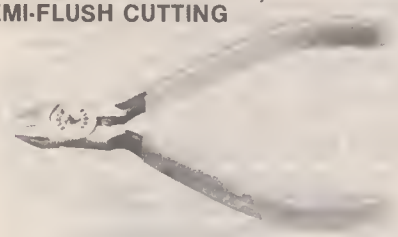
MODEL 101-S OUR PRICE **$4.95**
DESCRIPTION
Specifications same as 100, except with spring-equipped self-opening handles.

MODEL 103-S OUR PRICE **$5.95**
DESCRIPTION
Has unique cam stop adjustment for different wire sizes. Cam adjustment stays put, won't move, even with screw loose. Fine for industrial use.



Key to Plier Dimensions
A—Overall length
B—Jaw length
C—Jaw width
D—Jaw thickness
E—Knife length
F—Point thickness
All dimensions on this page in inches

KLEIN POINTED NOSE, SEMI-FLUSH CUTTING



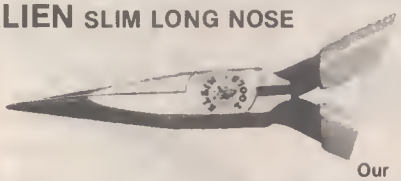
Sharp nose for working in confined areas.

Model	A	B	C	D	Our Price
D209-4C	4-3/18	1/2	7/16	1/4	$ 9.95
D209-5C	5	11/16	9/16	3/6	10.95

KLEIN MATRIX CUTTERS, SEMI-FLUSH CUTTING

Model	A	B	C	D	
D263-4C/D102-4C	4	3/16	7/16	1/4	$12.95

KLIEN SLIM LONG NOSE



Model	A	B	C	D	F	Our Price
D307-5-1/2	5-9/16	1-3/4	17/32	5/16	1/16	$6.95
D307-5-1/2C	With coil spring.					9.95

KLEIN SLIM LONG NOSE WITH SMOOTH JAWS

Model	A	B	C	D	F	OUR PRICE
D327-5-1/2C	5-9/16	1-3/4	17/32	5/16	1/16	$10.95

KLEIN SHORT SLIM NOSE WITH SMOOTH JAWS

Model	A	B	C	D	F	Our Price
D322-4-1/2C	4-3/4	1-1/16	7/16	1/4	1/32x1/16	$10.95

LONG NOSE ELECTRONIC PLIERS

KLEIN SHORT SLIM NOSE

Model	A	B	C	D	F	Our Price
D321-4-1/2	4-3/4	1-1/16	7/16	1/4	1/32x1/16	$9.95
D321-4-1/2C	With coil spring.					$10.95

KLEIN KLEIN STANDARD LONG NOSE

Model	A	B	C	D	F	Our Price
D301-5	5-9/16	1-9/16	11/16	3/6	3/32	$ 9.95
D301-5C	With coil spring & 1/16".					9.95
D301-6	6-5/6	1-15/16	11/16	3/6	3/32	9.95
D301-6C	With coil spring & 1/16".					10.95
D301-7	7-1/6	2-7/16	11/16	3/6	3/32	9.95
D301-7C	With coil spring & 1/16".					9.95

KLEIN STANDARD LONG NOSE WITH SIDE CUTTERS

Model	A	B	C	D	E	F	Our Price
D203-5	5-9/16	1-9/16	11/16	3/6	1/2	3/32	$9.95
D203-5C	With coil spring & 1/16" point.						9.95
D203-6	6-5/8	1-15/16	11/16	3/6	1/2	3/32	9.95
D203-6C	With coil spring & 1/16" point.						10.95
D203-7	7-1/6	2-7/16	11/16	3/6	1/2	3/32	10.95
D203-7C	With coil spring & 1/16" point.						11.95

KLEIN STANDARD MODEL CUTTERS

Tapered nose and standard bevel cutting knives.

Model	A	B	C	D	Our Price
D202-5	5-1/2	13/16	11/16	7/16	$ 9.95
D202-5C	With coil spring.				10.95
D202-6	6-1/16	13/16	11/16	7/16	9.95
D202-6C	With coil spring.				10.95

KLEIN KLEIN STANDARD DIAGONAL CUTTERS

This is the basic Klein diagonal cutting plier with tapered nose and standard bevel cutting knives.

Model	A	B	C	D	Our Price
D245-5C	5	11/16	9/16	3/8	$9.95

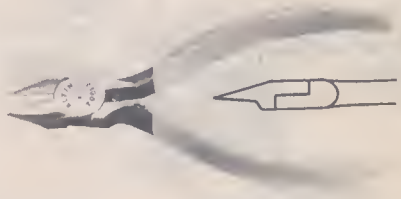
KLEIN SEMI-FLUSH DIAGONAL CUTTERS

Model	A	B	C	D	Our Price
D210-5C	5-1/2	13/16	11/16	7/16	$10.95
D210-6C	6-1/16	13/16	11/16	7/16	10.95

KLEIN FLAT NOSE

Model	A	B	C	D	F	Our Price
D323-4-1/2	4-3/4	1-1/16	7/16	1/4	1/8x1/16	$ 9.95
D323-4-1/2C	With coil spring.					10.95

KLEIN NARROW POINTED NOSE



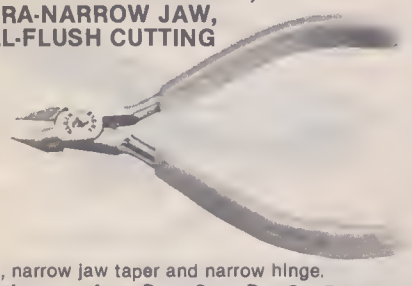
Similar in design to semi-flush cutting D209 series plier, but not relieved.

Model	A	B	C	D	Our Price
D219-4C	4-3/16	1/2	7/16	1/4	$ 9.95
D219-5C	5	5/6	9/16	3/6	10.95

PLIERS

Key to Plier Dimensions
A—Overall length
B—Jaw length
C—Jaw width
D—Jaw thickness
E—Knife length
F—Point thickness
All dimensions on this page in inches

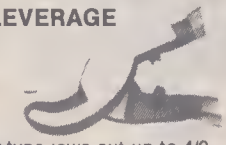
KLEIN TAPERED NOSE, EXTRA-NARROW JAW, FULL-FLUSH CUTTING



Fine, narrow jaw taper and narrow hinge.

Model	A	B	C	D	Our Price
D259-4C	4-3/18	1/2	13/32	1/4	$12.95

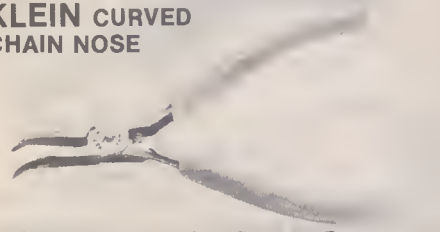
KLEIN HIGH-LEVERAGE CABLE CUTTER



DESCRIPTION
Cable-gripping, shear-type jaws cut up to 4/0 aluminum (not ACSR) . . . up to 2/0 copper . . . up to 100-pair, 24-gauge communication cable. Makes clean, efficient cuts. Compact . . . only 9-1/2".

Model	Length	Our Price
63050	9-1/2" (24.1cm)	$16.95

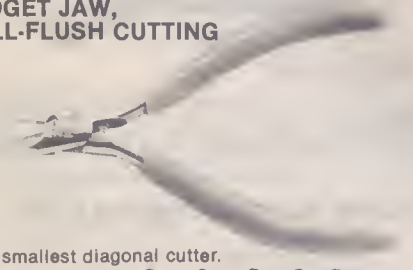
KLEIN CURVED CHAIN NOSE



Designed to bend and form fine wire. Extra-slim nose for delicate work in narrow spaces. 60° bend at nose permits easy access to work and full visibility.

Model	A	B	C	D	E	F	Our Price
D320-4-1/2C	4-5/8	7/8	13/32	1/4	1/2	1/16	$12.95

KLEIN TAPERED NOSE, MIDGET JAW, FULL-FLUSH CUTTING



Our smallest diagonal cutter.

Model	A	B	C	D	Our Price
D295-4C	4-3/18	1/2	3/8	1/4	$13.95

KLEIN HIGH-HARDNESS POINTED CUTTERS, SEMI-FLUSH CUTTING

Designed for cutting nickel ribbon wire. Cutting knives hardened to Rockwell C60—as hard as a file. Nose only 1/16" (16mm) at tip for use in confined spaces.

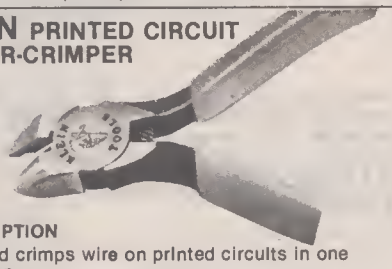
Model	A	B	C	D	Our Price
D230-4C	4-3/18	1/2	1/2	7/18	$12.95

KLEIN BX CUTTER

DESCRIPTION
High-leverage, shear-type design for one-hand operation. Cuts cable easily and quickly. With stripping notches. Bow in handle designed to restore BX cable to original shape after cutting.

Model	Length	Length of Cut	Our Price
1104	7" (17.8cm)	1-1/8" (2.9cm)	$11.95

KLEIN PRINTED CIRCUIT CUTTER-CRIMPER



DESCRIPTION
Cuts and crimps wire on printed circuits in one operation.

Model	A	B	C	D	Our Price
D052C	5-1/8	7/18	11/18	3/8	$12.95

KLEIN TRANSVERSE END CUTTERS

Semi-flush cutting knives at tip. Ample 5/8" (16mm) jaw slot for wire end.

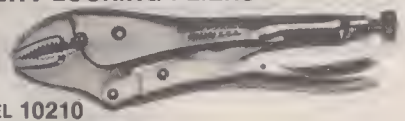
Model	A	B	C	D	E	F	Our Price
D224-4-1/2C	4-5/8	5/16	7/18	1/4	1/8	1/8	$10.95

KLEIN SQUARE NOSE SIDE CUTTERS

This is the original Klein side cutting plier for general-purpose use. Squared nose and knurled jaws.

Model	A	B	C	D	E	Our Price
D201-6	8-1/4	1-3/32	29/32	1/2	9/16	$10.95
D201-7	7-5/16	1-9/32	1-5/32	1/2	5/8	10.95
D201-8	8-1/2	1-7/18	1-7/32	5/8	23/32	11.95
D201-9	9-1/4	1-19/32	1-5/16	5/8	25/32	12.95

KLEIN LOCKING PLIERS



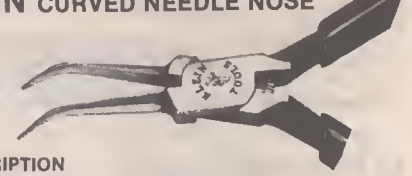
MODEL 10210
OUR PRICE $9.95
Dimensions: 10" (254 mm) Curved Jaw Plier

MODEL 10310
OUR PRICE $9.95
Dimensions: 10" (254 mm) Straight Jaw Plier

KLEIN-LOK™ PLIERS

DESCRIPTION
Versatile 10" locking pliers. Rugged, powerful, e "must" for every tool user. Pliers adjust easily to lock at any size with desired amount of pressure. Release lever opens jaws fully. Can also be used as non-locking pliers. Top-grade alloy steel; heet treated for maximum strength and durability. Nickel-pleted finish.

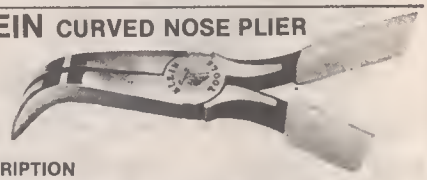
KLEIN CURVED NEEDLE NOSE



DESCRIPTION
60° bend at nose for maximum work visibility, especially in confined areas. Polished inside jaws and radiused jaw edges to prevent nicking wire. With coil spring. Blue plastic-dipped handles.

Model	A	B	C	D	F	Our Price
D338-5½C	5-1/2 (133)	1-3/4 (44)	1/2 (13)	3/16 (5)	1/18 (1.8)	$12.95

KLEIN CURVED NOSE PLIER



DESCRIPTION
Nose curved to approx. 70° angle for working around obstructions and in hard-to-reach spaces. Provides full view of work area. Yellow plastic-dipped handles.

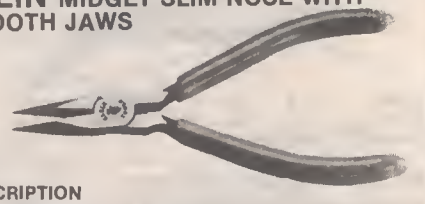
Model	A	B	C	D	E	F	Our Price
D302-8	6-1/4 (159)	1-1/2 (38)	11/18 (17)	1-3/4 (10)	3/32 (44)	(2)	$10.95

KLEIN LONG NEEDLE NOSE WITH SMOOTH JAWS

DESCRIPTION
Similar to D318-5½ above, but with smooth inside jaws and radiused jaw edges to prevent nicking wire. With coil spring. Blue plastic-dipped handles.

Model	A	B	C	D	F	Our Price
D328-5½C	5-13/32 (137)	1-3/4 (44)	1/2 (13)	5/18 (8)	1/18 (1.6)	$12.95

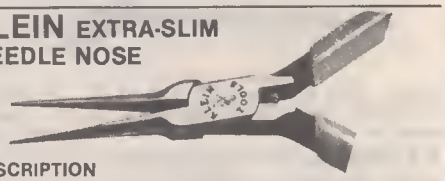
KLEIN MIDGET SLIM NOSE WITH SMOOTH JAWS



DESCRIPTION
Similar to D321-4½ above, but with smooth inside jaws and radiused jaw edges to prevent nicking wire. With coil spring. Pastel plastic-dipped handles.

Model	A	B	C	D	F	Our Price
D322-4½C	4-3/4 (121)	1-1/16 (27)	7/18 (11)	1/4 (6)	1/32x1/18 (.8x1.6)	$11.95

KLEIN EXTRA-SLIM NEEDLE NOSE



DESCRIPTION
Long, narrow nose and slim hinge for efficient use in extremely close quarters. Finely knurled jaws grip thin wire without damaging it. With coil spring. Pastel plastic-dipped handles.

Model	A	B	C	D	F	Our Price
D335-5½C	5-1/2 (140)	1-23/32 (44)	15/32 (12)	1/4 (8)	1/18 (1.6)	$11.95

KLEIN UNIVERSAL SIDE CUTTERS

DESCRIPTION
Knurled front jaws, toothed pipe grip, and side cutting knives. With wire cutters on both sides and blue plastic-dipped handles.

Model	A	B	C	D	E	Our Price
12098	8-1/2 (218)	2-1/4 (57)	1-1/32 (26)	1/2 (13)	9/16 (14)	$12.95

XCELITE COAXIAL WIRE STRIPPER

FEATURES
- Fest, precise end easy to operete.
- Lightweight—weighs only 1 ounce.

DESCRIPTION
The coexlel wire stripper is fest, precise end easy to operate. Will do RG 58, RG 59, RG 122, RG 174 end RG 8281. This tool will srtip every coex wire with en O.D. between .14 end .30 inches. Its small, 3.5" long, compact body allows the operetor to use it in meny erees which previously prevented post-stripping coex wires. Can be eeslly cerried in a tool pouch or pocket and utilized in the field or in the plant. The removeable cessette bledes ere reted for up to 10,000 strips and give cleen, crisp cuts. Cessette number 2C-B(blue) will cut exposed breid to e lenght of .24 (6mm), number 2C-Y (yellow) will cut exposed braid to a length of .48 (12mm). Tool body is constructed of fiberglass reinforced nylon.

2CS5982-B Coax tool w/blue cassette, for BNC & TNC conn. ..... **Our Price $34.95**
2CS55982-Y Coax tool w/yellow cassette, for UHF conn. ..... **Our Price $34.95**
2C-B Replacement blue cessette ..... **Our Price $13.75**
2C-Y Replacement yellow cassette ..... **Our Price $13.75**

CABLEMATIC

COAX CABLE STRIPPER
MODEL UT 5800
OUR PRICE $14.95
Prepares cable for installation of PL-259 with UG-175/U on RG-58 cable.

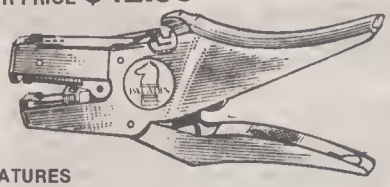
MODEL UT 5900
OUR PRICE $14.95
Prepares cable for installation of "F" connectors on RG-59 size cable.

MODEL UT 5901
OUR PRICE $14.95
Prepares cable for installation of PL-259 with UG-176/U adapter or TV wall plate on RG-59 cable.

UT SERIES COAX CABLE STRIPPERS
Precise—Machined to precision tolerances.
Simple—Two step operation. Even the unskilled make perfect strips every time.
Uniform—Strips cable to same dimensions every time, no matter who uses it, without nicks or scratches.
Prevents trouble calls—Can't nick center conductor or leave loose strands to cause shorts.
Saves time—Prepares cable for connector in less than 15 seconds.
Lifetime use—Replaceable blades designed for long life.

CABLEMATIC CABLE CRIMP TOOL
MODEL CR595A
OUR PRICE $14.95
Standard cable crimp tool.

PALADIN AUTOMATIC HAND WIRE STRIPPER
MODEL PA1100
OUR PRICE $42.95

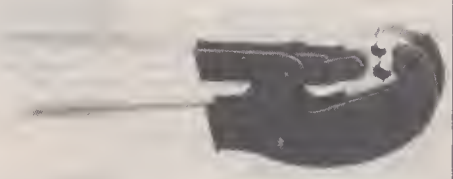


FEATURES
- Cuts and strips single or multiple conductor cables.
- Built-in cutter, self-adjusting stripping jaws.

DESCRIPTION
This innovative automatic hand wire stripper has a built-in sensor which enables it to strip No, 28 through No. 12 AWG wire, solid or stranded without adjustment. Its fiberglass re-inforced nylon body is virtually indestructable and electrically insulated from any shock hazards. The built-in self-sharpening cutter allows the operator to cut and strip in one operation with one tool. The front feed gives freedom of use in the tightest of spaces. The stainless steel, self-adjusting, stripping blades are industrially tough and built for up to 100,000 strips or more. Will do as many as six conductors simultaneously in bonded or molded cables. Stripping length: adjusts up to 7".

PA2101 Replacement stripping jaw ..... **Our Price $13.75**

CABLEMATIC HEX CRIMP TOOL
MODEL CR-596A
OUR PRICE $29.95

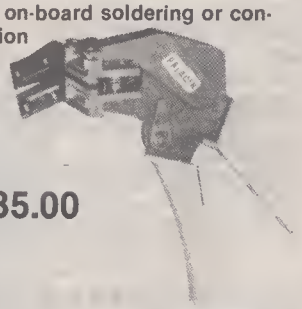


DESCRIPTION
The Hex Crimp tool was functionally designed for the CATV and MATV installer. It is lightweight and fits the installer's belt.

Ratchets are eliminated by the design of the "positive homing action" for the tool to assure a full crimp every time.

The hex dimension for the RG-59/U is .262" and RG-6/U is .324", on a flat-to-flat measurement.

PALADIN FLAT RIBBON CABLE STRIPPER
Strips cable for on-board soldering or connector termination
MODEL PA1120
OUR PRICE $135.00
MODEL PA1121
OUR PRICE $135.00



DESCRIPTION
These tools strip up to 32 conductors of bonded, laminated or twisted pair conductor flat cable — a major advance in flat cable preparation technology, both in function and versatility.

Two varieties of the tool are available. The PA1120 strips the insulation completely off the cable while the PA1121 strips the insulation back, but does not remove it, thus preserving the centerline spacing.

No other flat ribbon cable stripper on the market today can equal the quality or cost effectiveness that this tool delivers.

XCELITE MINI-CRIMPER THE MECHANICAL CRIMPING TOOL
MODEL MIC-58 **OUR PRICE $74.95**
MODEL MIC-2214 **OUR PRICE $59.95**

NEW!

DESCRIPTION
The smallest professional crimping tool of its kind. **Angled jaws** offer the greatest comfort in simulteneously locating connectors and crimping. The ratchet insures a full-cycle complete crimp every time. Overall Length: 7.68"/195mm. Handle Spread at Gripping Points: 3.66"/93mm.

MIC-58— Field of application: RG-58 BNC/TNC connectors. Weight: .55 lbs.

MIC-2214— Field of application: Insulated Terminals size AW-22-14 (.75-2.5mm). Weight: .55 lbs.

PALADIN MINI STRIPPER
Compact, Self-Adjusting Wire Stripper
MODEL PA1115
OUR PRICE $34.95

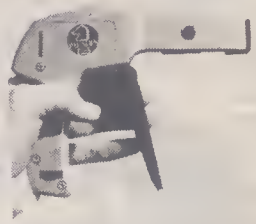
DESCRIPTION
Designed for smaller wires, the new version of the Stripex features the same high quality and versatility. The Mini Stripper will strip solid or stranded wires from 16 to 30 AWG. A built-in cutter eliminates the need for a second tool.

The compact size of the PA1115 Mini Stripper is especially attractive for those tight jobs where space is at a premium. It is designed to fit the hand and operate with the lowest force possible, thus eliminating operator fatigue.

Half the size and twice the versatility of competitive tools. Another innovation in wire stripping from Paladin Corporation.

REPLACEMENT STRIPPING BLADES
MODEL PA2108
OUR PRICE $10.95

PALADIN CABLE TY GUN
MODEL PA1825
OUR PRICE $52.50



DESCRIPTION
Paladin's new Cable Ty Gun gives the user high quality at a truly economical price.

The Ty Gun tensions the ty's and cuts them cleanly without leaving ragged edges.

The tension adjustment gives great flexibility in selecting bundling pressure while keeping operator fatigue to a minimum.

VACO 5-IN-1 MAGNETIC SCREWDRIVER

MODEL 70425 OUR PRICE **$9.95**

DESCRIPTION
TORX® T15 bit is featured in these all magnetic 5 bit screwdrivers. Included in each are two Phillips bits, two slotted bits, and the TORX® T15 bit.

VACO SELF-ADJUSTING NUT DRIVER

MODEL SA-711 OUR PRICE **$11.95**

DESCRIPTION
Adjusts itself automatically from 1/4" to 7/16". Simply press and turn. No manual adjustment needed. Gives the range in sizes of a four piece socket wrench set in one compact tool. Selects the right socket to fit any one of four different sizes of hex head bolts or nuts ... automatically. Tempered steel sockets for extra depth insure positive action. Ideal for assembly, installation, maintenance, automotive, electronics, construction. Individually carded.

VACO SPRING TOOL

MODEL ST-49 OUR PRICE **$3.95**

DESCRIPTION
Use to install or remove springs on motors, brake shoes, head lights, relays, solenoids and hundreds of other applications using small diameter coil springs. Unique "C" tip prevents slipping while pulling or pushing spring. Overall Length: 7-1/2" Wgt. Per Std. Pkg.: 1-1/2 Lbs.

VACO RATCHET BOX WRENCHES

MODEL RB-5

OUR PRICE **$39.95**

DESCRIPTION
Set of all five ratchet box wrenches. Packed in blue vinyl pouch for roll-up or hang-up storage. Individual pockets for each wrench. Shpg. Wt. 2-1/2 lbs. Includes sizes 1/4" x 5/18", 3/8" x 7/16", 1/2" x 9/18", 5/8" x 11/16", 5/8" x 3/4".

VACO TWIN LEAD CIRCUIT TESTER

MODEL 70219

OUR PRICE **$2.50** 10 FOR **$22.50**

DESCRIPTION
Economy twin lead tester, for checking circuits from 50 to 300 volts. AC or DC.Ideal for testing outlets, switches, fuses, spark plugs and other electrical devices, can also be used to check DC polarity, frequency and polyphase circuits. Dependable 25,000 hour neon glow lamp. Individually carded. Shpg. Wt. Std. Pkg. 1 lb.

VACO CIRCUIT TESTERS

MODEL TK-500

OUR PRICE **$2.95** 10 FOR **$25.00**

DESCRIPTION
Handy, pocket clip testers for checking line circuits. Can be used on 100-500 volt circuits, AC or DC. Neon glow lamp indicates hot side of line. Screwdriver-shaped probe easily fits into receptacles. Probe length — 1-5/8". Overall length — 4-1/2". Wt. 1/2 lb.

VACO SLOTTED SCREW HOLDING DRIVERS

MODEL K-34 OUR PRICE **$5.95**

DESCRIPTION
Split-blade screw holding driver wedges into screw slot. Positive gripping power holds, starts and drives slotted screws in awkward, hard-to-reach places...even drives stubborn, self-tapping types. Handle size (dia. & length) 7/8" X 3-1/2". Blade size (dia. & length) 3/16" X 4". Overall length 7-1/2".

VACO CONVERTIBLE SNAP RING PLIERS

MODEL 70195

OUR PRICE **$12.95**

DESCRIPTION
Multi-purpose pliers adjusts for internal or external snap rings. Individually carded. Shpg. Wt. Std. Pkg. 1-1/2 lbs. Fits internal rings Nos. 3000-X37 to 3000-X100 (0.375" to 1.00"), and external rings Nos. 3100-25 to 3100-87 (0.250" to 0.875").

VACO AUTOMATIC WIRE STRIPPER

MODEL 70334

OUR PRICE

$16.95

DESCRIPTION
Stripper handles 22 to 8 gauge solid or stranded wire with ease. Spring-loaded design keeps dies open ready for use. Single-squeeze action removes insulation up to 7/8". Holding jaws grip wire until handles are released. Removeable strip length guide adjusts for repeated equal length stripping. Cushion grip handles.

VACO SELF-ADJUSTING WIRE STRIPPER

MODEL 70358C

OUR PRICE

$18.95

DESCRIPTION
A wire stripper so simple to use it automatically adjusts itself to the diameter of the wire. The cutting blades never touch the conductors; damage to the wire is impossible. Spring action returns stripper to the ready-to-use position. Strips all wire automatically from No. 18 to No. 10 AWG sizes.

VACO WIRING TOOL

MODEL 1963

OUR PRICE

$9.95

DESCRIPTION
Patented, all purpose wiring tool cuts wire, strips wire, crimps insulated and non-insulated terminals and slices 6 sizes of bolts (4-40, 5-40, 8-32, 8-32, 10-32 and 10-24). Special features include end positioned wire cutter for reaching into hard-to-get-at places, and new bolt slicing principle that permits less hand pressure for slicing bolts with no burrs to file. Plastic comfort grip handles.

VACO POPULAR SIZE HEX WRENCH SET

MODEL 70148

OUR PRICE

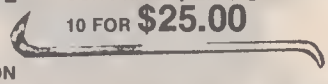
$11.95

DESCRIPTION
Contains .050", 1/16", 5/64", 3/32", 1/8", 5/32" and 3/16" folding hex blades. 6 sets per std. pkg. Shpg. Wt. 1-1/2 lbs. Individually carded.

VACO OFFSET SCREWDRIVERS

MODEL VO-2 OUR PRICE **$2.95**

NEW! 10 FOR **$25.00**



DESCRIPTION
Offset drivers provide the exact screwdriver needed for working in confined areas. For Screw No. 6 to 10. Overall length 4".

ARROW LOW VOLTAGE WIRE STAPLE GUN TACKER

MODEL T-18

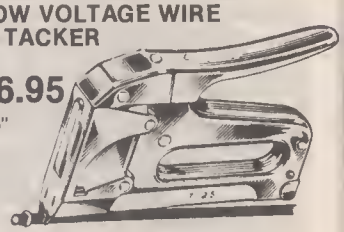
OUR PRICE **$26.95**

Fits wires up to 3/16" in diameter.

MODEL T-25

OUR PRICE

$26.95 Fits wires up to 1/4" in diameter.



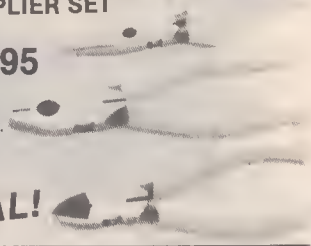
Model	Description 5000 staples per box	Our Price
ST-18-38	Staples 3/8"	$6.50
ST-18-716	Staples 7/16"	8.50
ST-25-932	Staples 9/32"	8.50
ST-25-38	Staples 3/8"	6.50
ST-25-716	Staples 7/16"	8.50
ST-25-916	Staples 9/16"	6.50

BP 3 PIECE PLIER SET

MODEL TS-603

OUR PRICE **$7.95**

FEATURES
- 7" Linesmen Plier.
- 6" Long Nose Plier.
- 6" Diagonal Plier.



NEW! SPECIAL!

BP PRECISION SCREWDRIVERS

MODEL TS-600

OUR PRICE **$3.50** each

5 FOR **$15.00**

DESCRIPTION
High quality precision jeweler and hobbyist screwdriver set. Six sizes fit any need. 6-piece set.

BP MINIATURE TOOL KIT

MODEL TS-625

OUR PRICE

$12.95

CONTENTS 25 pcs. Tempered Steel
- Nutdrivers: 5.0, 4.5, 4.0, 3.5 (m/m).
- Screwdrivers: 3.0, 2.3, 1.8, 1.4 (m/m).
- Crosspoint screwdrivers: No. 1, No. 0, No. 00.
- Hex key wrenches: 2.5, 2.0, 1.5, (m/m).
- Tweezers. • AWI
- Hex keys: 1.5, 2, 2.5, 3, 4, 5, 5.5, 8 (m/m).

BP TWO TOOLS IN ONE

MODEL WS-778

OUR PRICE

$7.95

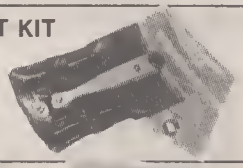
DESCRIPTION
Has the functional characteristics of two separate tools: the operations of cutting and stripping are here perfectly executed by one single device.

This new tool functions as both a cutter and a stripper for electrical wire of section 0.5 to 8 mm², without adjustment. It can also be employed for multiple wire as the outside main insulation and the internal single wire can be stripped without readjusting the tool.

XCELITE MAGNETIC NUTDRIVERS

NUMBER	HANDLE COLOR	HEX OPENING	OUR PRICE
	REGULAR MAGNETIC (6-1/8" OVERALL LENGTH)		
8M	Red	1/4"	$4.40
10M	Amber	5/16"	4.40
	EXTRA LONG—MAGNETIC (10-1/4" OVERALL LENGTH)		
L8M	Red	1/4"	$5.40
L10M	Amber	5/16"	5.40
	SUPER LONG—MAGNETIC (20-7/8" OVERALL LENGTH)		
LL8M	Red	1/4"	$11.95
LL10M	Amber	5/16"	11.95

XCELITE MIDGET RATCHET OFFSET KIT

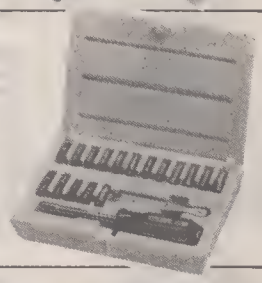


MODEL XL-75

OUR PRICE **$10.95**

DESCRIPTION
Five piece Midget Retchet Offset Kit set in see-thru plestic pouch. All driver bits. 1/4" hex shank.

XCELITE MIDGET REVERSIBLE RATCHET OFFSET SCREWDRIVER SET



MODEL XL-70

OUR PRICE **$36.95**

DESCRIPTION
Conteins 12 Allen hex type screw bits (.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"), two slotted screw bits (1/4", 3/16"), two Phillips screw bits (#1 end #2), 1/4" hex to 1/4" square edaptor bit, 3-3/4"reversible ratchet, 6" spinner/extension with 1/4" square insert in handle-end for use with adaptor bit and retchet, molded plastic case with free initials.

XCELITE HEAT SINK

MODEL 80

OUR PRICE **$4.95** 10 FOR **$45.00**

DESCRIPTION
For soldering close to delicate transistors or fine wires end near eny other heat damageable electronic components, copper jaws, spring tension, smooth finish and red Cushion-grip.

XCELITE ELECTRONIC SHEARS

MODEL 96CG

OUR PRICE **$8.40**

DESCRIPTION
5", 4 oz. For flush-cutting wire up to 14 AWG, red cushion-grips, spring loaded.

MODEL 97CG

OUR PRICE **$11.40**

DESCRIPTION
Same es 96CG but includes "Klip-Grip" to hold cut-off wires.

XCELITE 4-WAY POCKET TOOI

MODEL 600

OUR PRICE **$5.95**

CONTENTS
- 1/4" Nutdriver.
- 7/16" Nutdriver.
- No. 1 Phillips type screwdriver.
- 3/16" Slotted screwdriver.

XCELITE PLASTIC POUCH SET

MODEL 157

OUR PRICE **$19.95**

DESCRIPTION
Contains 7 drivers, with 1-1/8" to 1-7/8" depth sheft holes. Catalog No. 6, 8, 10, 11, 12, 14 end 16.

MODEL 177

OUR PRICE **$22.50**

DESCRIPTION
Conteins 7 drivers, all with full hollow shaft. Catalog Nos. HS6, HS8, HS10, HS11, HS12, HS14 end HS18.

XCELITE ELECTRICIAN'S KNIFE

MODEL K-22

OUR PRICE **$11.95**

DESCRIPTION
Combination knife and screwdriver blede.

XCELITE SCREWDRIVER SETS

MODEL SDX-22

OUR PRICE **$14.95**

DESCRIPTION
Conteins 5 pieces, all Phillips. Catalog Nos. X-100, X-101, X-102, X-103, SX-102.

MODEL SD-3V

OUR PRICE **$4.95**

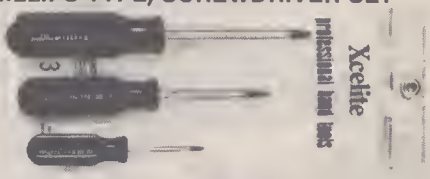
DESCRIPTION
Contains 3 pocket-clip screwdrivers — R-181, and R-3322 for slotted screws, P-12S for Phillips head screws.

MODEL SRX-33

OUR PRICE **$17.95**

DESCRIPTION
Screwdriver Set No. SRX-33 contains 6 pieces — X-101 and X-102 for Phillips head screws, R184, R3166, R5166, R144 for slotted screws.

XCELITE SUPER-TRU TIP (PHILLIPS TYPE) SCREWDRIVER SET

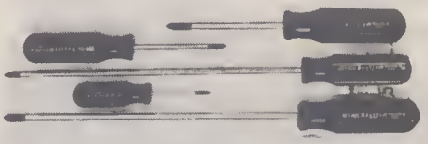


MODEL XST-3

OUR PRICE **$9.95**

DESCRIPTION
Conteins 3 pieces — ell Phillips. Catalog Nos. XST-100, XST-101, XST-102.

XCELITE SUPER-TRU TIP (PHILLIPS TYPE) SCREWDRIVER SET



MODEL XST-5

OUR PRICE **$19.95**

DESCRIPTION
Conteins 5 pieces — all Phillips. Catalog Nos. XST-100, XST-101, XST-102, XST-1010, XST-1020.

XCELITE SUPER-TRU TIP (PHILLIPS TYPE)

DESCRIPTION
The bright, nickel chrome blades have tips which have been specially treated end finished with black oxide for the ultimate in control. The advantage lies in the closer fit of the super-tru tips for much longer wear life end the reduction of damage to screw head recesses, especially in the smaller size festeners.

SPECIFICATIONS

Model No.	Point Size	Blade Diam. (Inches)	Blade Length (Inches)	Overall Length (Inches)	Our Price
XST-100	0	1/8	2	4-4/8	$2.50
XST-101	1	3/16	3	6-5/8	3.50
XST-102	2	1/4	4	8-1/8	4.50
XST-1010	1	3/16	10	13-5/8	4.95
XST-1020	2	1/4	10	14-1/8	5.50

LUFKIN SPECIALTY TAPES EXECUTIVE® THINLINE

MODEL W-606

OUR PRICE **$7.95**

DESCRIPTION
Yellow clad. Polished chrome cese. Spring action returns blede to case. Convenient for office, briefcase and pocket. Eesy to read bold black and red print on yellow background. 1/4" X 6 Ft.

LUFKIN ECONOMY TAPE MEASURE

DESCRIPTION
Yellow clad. Lightweight—6'/2m model is 2 oz. High strength matt-black finished case.

Model	Dimensions	Our Price
Y826(W826)	1/2" x 6'	$3.50
Y8210(W8210	1/2" x 10'	4.50
Y8212(W8212)	1/2" x 12'	4.95

TOOLS

AEG RECHARGEABLE SCREWDRIVER

MODEL EZ-502

OUR PRICE **$79.95**

DESCRIPTION
Cordless power for remote screwdriving applications.

FEATURES
- Forward/Reverse operation.
- Adjustable 2-position hinged-handle.
- Four-stage torque control. • Compact, lightweight design.
- One-hour quick-charging battery pack.
- The tool for tight spaces and out-of-the-way places.

AEG RECHARGEABLE DRILL/DRIVER

MODEL EZ-505

OUR PRICE **$119.95**

Cordless Drill/Driver Power Goes Anywhere!
Built for professional performance and simple convenience, AEG drill/drivers carry the power to handle tough drilling and screwdriving jobs anywhere your work takes you. Perfect for various outdoor work including boats, electrical, air conditioning and telephone installation. Battery pack recharges in only one hour.

KLEIN SEVEN-TOOL KIT

MODEL 1305-33A

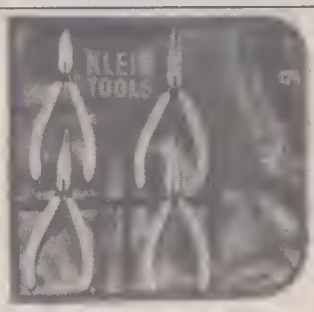
OUR PRICE **$49.95**

DESCRIPTON
Handy kit for electricians and servicemen. Blue vinyl roll-up pouch with lace tie.
Contains the following tools:
No. D201-6NE Side Cutting Plier, No. D301-6 Long Nose Plier, No. D202-5 Diagonal Cutting Plier, No. 1550-2 Electrician's Knife, 4" (102 mm) File and Handle, 5" (127 mm) Electrician's Tweezers, No. 19410 6" (152 mm) Screwdriver

KLEIN 4-PLIER KIT

MODEL 1305-4

OUR PRICE **$29.95**



DESCRIPTION
Handy fold-up kit holds four midget pliers. Blue vinyl case with two snaps fits your pocket.
Contains the following tools:
No. D257-4 Diagonal Cutting Plier
No. D321-4½ Long Nose Plier, No. D224-4½C End Cutting Plier, No. D323-4½ Flat Nose Plier.
Size Closed: 7 x 2-3/4 x 1" (178 x 70 x 25mm).

KLEIN DRIVE-A-MATIC NUT DRIVER

MODEL 632 OUR PRICE **$11.95**

DESCRIPTION
The single tool automatically fits many different nut and socket screw sizes. Eliminates hunting for the right driver. Hex head adjusts to the proper size as you turn it. Will drive or loosen hex nuts from 1/4" (6.4 mm) to 7/16" (11.1 mm) and hex-head screws from No. 8 to 1/4" (6.4 mm). Tough plastic handle with comfort grip to protect hands, makes turning easy.

KLEIN MAGNETIC SCREWDRIVER WITH FOUR BITS

MODEL 19510 OUR PRICE **$8.95**

MODEL 19520 OUR PRICE **$9.95**

DESCRIPTION
Magnetic tip holds bit and screw securely. Extra bits stored in special compartmented handle. Fluted handle of durable plastic provides comfortable grip. Supplied with No. 1 and No. 2 Phillips bits and two slotted bits for screw sizes No. 3 through No.8. **Model 19510:** Blade Length 3 3/4" (95 mm), Overall Length 8" (203 mm). **Model 19520:** Blade Length 7" (178 mm), Overall Length 11 5/16" (287 mm).

UNGAR EXTRACTOR PLIERS

MODEL 6980

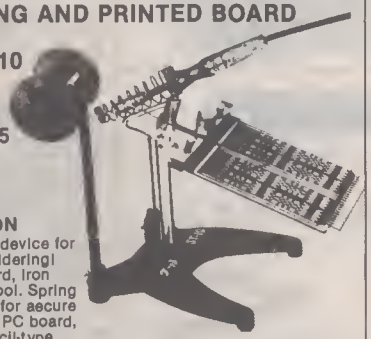
OUR PRICE **$16.95** 2 FOR **$30.00**

DESCRIPTION
Extracts DIP's from sockets and desoldering printed circuit boards.

FEATURES
- DIP's easily removed—spring loaded, self activating one hand operation.
- Versatile—removes 4-48 pin DIP's.
- Lifts DIP's vertically. Does not bend leads.

GC ELECTRONICS DELUXE SOLDERING AND PRINTED BOARD STATION

MODEL ST-10



REG. $49.95
OUR PRICE
$24.95

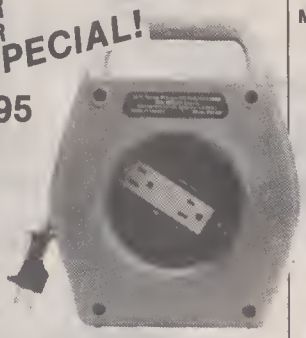
DESCRIPTION
A time saving device for hassle-free soldering! Holds PC board, iron and solder spool. Spring cushion grips for secure positioning of PC board, holder for pencil-type irons dissapates heat. Takes up to 2" solder spools. Sturdy die-cast base. PC boards can be tilted and rotated 360° for ease and convenience. Adaptable for right or left-handed use. Size (HWD): 9" x 7" x 7". Shipping wt: 5 lbs.

SGL WABER POWER MASTER CORDREEL

SPECIAL!

MODEL CR-52

OUR PRICE **$14.95**



DESCRIPTION
New from SGL, the POWER MASTER® CORDREEL is a super item with endless uses. The compact, lightweight carrying case houses a heavy-duty 25 ft. extension cord, protecting it from damage and tangling. And CORDREEL can be stored anywhere — takes up a minimal amount of space. Two "U"-grounded outlets on the back of the unit allow for safe, convenient use of tools or appliances — in the workshop or all around the house!

BP DESOLDERING PUMP

SPECIAL!

MODEL DS-110-BP OUR PRICE **$7.95**

Your universal desoldering pump provides ample vacuum for most desoldering requirements, and is designed for one-hand operation during rework or removal of all electronic circuit components. For comfort and ease of loading, the vacuum stroke can be adjusted to fit your individual load span (hand extension) requirements.

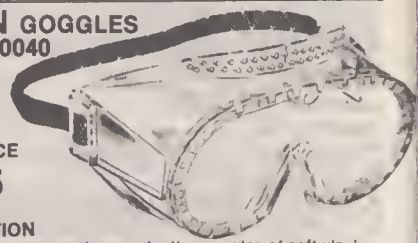
KLEIN BALL PEIN

DESCRIPTION
High-carbon steel head, drop-forged and hardened. Crowned face with uniform bevel. Smoothly rounded pein. Straight-grain hickory handle, stained end lacquered.

Model	Head Weight	Overall Length	Our Price
803-8	8oz. (277g)	13" (330mm)	$ 9.95
803-12	12oz. (340g)	13½" (343mm)	11.95
803-18	16oz. (454g)	14½" (388mm)	12.95

KLEIN GOGGLES

MODEL 60040



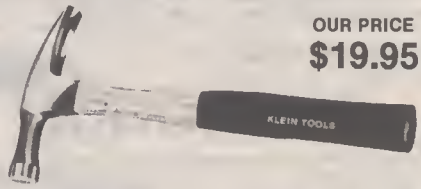
OUR PRICE
$4.95

DESCRIPTION
General-purpose cover type protective goggles of soft vinyl plastic. Comfortable and shaped to conform to facial contours. Fit easily over personal glasses. Top and bottom edges perforated for direct ventilation. Clear, one-piece .060" acetate lens is replaceable. Lightweight adjustable elastic strap. Cover Goggles. Standard head size.
Meets ANSI Z87.7-1979.

KLEIN ELECTRICIAN'S STRAIGHT-CLAW

MODEL 807-18

OUR PRICE
$19.95

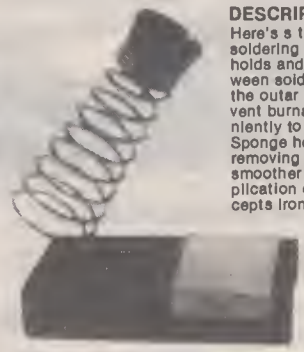


DESCRIPTION
Designed specifically for use in electrical work. Correctly balanced. Extra-long neck, straight-claw and narrow striking face make it ideal for reaching into outlet boxes and other confined areas. Polished, drop-forged, tempered steel head. Shock-absorbent fiberglass handle for strength. Comfortable, perforated neoprene grip bonded to handle. Head Weight 18 oz. (510 g). Overall Length 14" (356 mm).

BP SOLDERING IRON HOLDER AND TIP CLEANER

MODEL SK-533

OUR PRICE **$6.50**



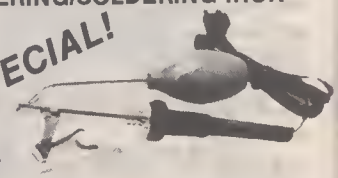
DESCRIPTION
Here's a tip on protecting your soldering iron. The metal cage holds and protects the iron between soldering intervals while the outer coil stays cool to prevent burns. Attaches conveniently to the sponge tray. Sponge helps prolong tip life by removing excess solder. Means smoother and more efficient application of heat every time. Accepts irons up to 3/4" diameter.

BP DESOLDERING/SOLDERING IRON

MODEL FH-80

OUR PRICE
$9.95

SPECIAL!

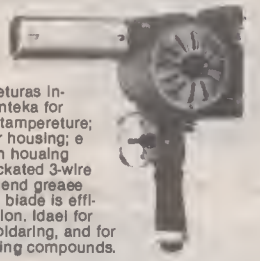


FEATURES
- 45 watts.
- 120 volts.
- Comes with stand.
- Lightweight, easy to carry, portable desoldering/soldering iron.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

HEAT GUNS/SOLDERING ACCESSORIES

MASTER APPLIANCE
MASTER HEAT GUN
HEAVY-DUTY FLAMELESS TORCHES



DESCRIPTION
The Mastar Heat Gun dalivere up to 2250 f.p.m. at temperetures up to 1000°F. without the dengers of open flamel Its many feeturas includa an adjustable eir inteka for controiling the eir biasa tampereture; e doubie jackated heater housing; e eturdy dia-cast aluminum houaing and an 8 ft. neoprana jackated 3-wire cord and plug thet is oil end greaee resistent. Turbo typa fan biade is efficient end quiat in operetion. Idael for shrinking sleeving, for eoldaring, and for drying cements and potting compounds.

SPECIFICATIONS
Ovarall height, 8". Nozzle eir opening, 1-5/32" diameter. Base plate, trienguler, 5-3/4 per side. Dallvers 15-1/2 c.f.m. eir volume at 2250 f.p.m. velocity. For 115V. 50/60 cycles AC or DC. 10B107 hes e NEMA 6-20P plug.

Model	Tempereture	Amps	Our Price
HG-301	300/500°F.	12	$74.95
HG-501	500/700°F.	14	84.95
HG-751	750/1000°F.	20	96.95

Attachments & Accessories for HG & VT Series

MODEL	DESCRIPTION	OUR PRICE
51309	1/4" Pinpoint ettachment	$ 9.95
A-160-HG	For shrink tubing up to 3/4" O.D.	9.95
A-170-HG	Fro shrink tubing from 3/4" up to 2" O.D.	9.95
A-203-HG	Extra-wide (8") for shrink tubing up to 3/4" O.D.	21.95
A-205-HG	For shrink boots up to 1-3/4" O.D.	21.95
51024	Shrink wrap packaging attachmant 8" wide	21.95
51013	Molded carrying case	21.95
30202	Soldar preform attachmant	18.95

VARITEMP® HEAT GUN
MODEL 1500
OUR PRICE $99.95

FEATURES
- 1080 watt element.
- Lightweight 2.2 lbs.
- Dieling any tempereture from ambient to 650°.

NEW!

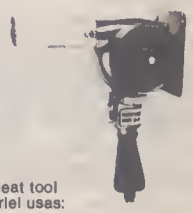
DESCRIPTION
Tha Varitamp heat gun faeturas an axclusive alectronic nonstapping temparatura control with parmits tha user to diel-in just the right tamparatura for eny haating job. Five spacial use attachmants meke this modal just the right tool for meny epplicatlone. Unit drawa a maximum of 9 amps up to 50% lese then thair compatitiva models. Can pay for itself in one yaar in electricity saving.
Now you cen shrink tubing, wald plastics, repeir vinyl, shrink & tarminate insulatad aoldar preforms, termineta heat shrinkabia environmantal splices, weld roofing metarials end epply heat to small erees.

Attachments, Diel Settings & Temperature Chart For Model 1500

Model	Attachment Deecription	Mex Diel Setting	Avg. Temp et Attachment F	C	Our Price
51102	Shrinking tubing heet shrink tubing	650	650	343	$ 7.00
50875	Pin point-weld plastic & rapeir vinyl	150	800	427	14.95
30273	Soldar - praform w/raducar-tarminate & ancapsulate praforms	400	700	371	19.95
30302	Roofing w/reducar-1-1/16" wide slot 45° angla, wald roofing	350	850	454	29.95
50874	Reducer only-5/8" dia. apply heat to smell erees.	400	650	343	9.95

VARITEMP® HEAT GUN
NEW!

Electronic tempereture control mey be dieled to eny setting ambient to maximum. May be locked in place for continuous production line use.



MODEL VT-750A
OUR PRICE $109.95

APPLICATIONS
The Ultimeta flemeless alactric heat tool for hundrads of electronic/industriel usas:
- Shrink tubing. • De-eolder.
- Malt solder praforms.
- Heet shrink packeging. • Activete edhasives.
- Soften floor covaring. • Strip paint and vernieh.
- Defrost freezar coils. • Repair end inetell vinyl.

Wherevar a fest, portabia flemelees haat is the nead.

DESCRIPTION
Temperatures from embiant to 750°F/400°C mey be dieled in. Setting mey ba lockad in piece for continuous production line use. Reinforced caremic heating element with double jeckated heatar housing for protection. Ruggad, die-cest aluminum housing with externelly repieceable carbon bruahes. 3-wira oil resistant cordset. Powar 120 Volts, 14 amps.

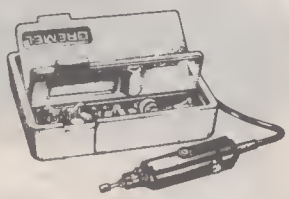
MASTER APPLIANCE
MASTER-MITE HEAT GUN
MODEL 10008
OUR PRICE
$69.95

APPLICATIONS
The compect, light but ruggad "Mester-Mite" is dasigned for elactronic end elactrical banchwork euch es shrink tubing, malting solder preforms, activating end curing adhesives end epoxiae, preheating flux, atc. Air velocity is just right for benchtop usa; it won't blow conactors end small components eround the work araa.

CONSTRUCTION FEATURES
High impect GE "Noryl® " housing withstande herd knocks. Brushlass shaded pole continuous duty motor. 7-ft. 3-wire grounded cord-set. Drawe only 4.5 empe. maximum. Slip-on haat-shrink ettechmant and 850°F elamant standard.

Model	Description	Voltege 50/60Hz	Amps	Ship Wt.
10008	Heet gun with 650°F aleement & daflector attachment	120	4.5	3 lbs

DREMEL® MOTO-TOOLS AND KITS
Variable Speed Moto-Tool® Kit
MODEL 3801 OUR PRICE $89.95 NEW!

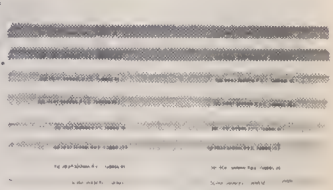


DESCRIPTION
Most popular kit for do-it-yourseifers end hobbyists. It conteins top-of-tha lina ball baaring Moto-Tool model 380 with variebie speed control (5,000 to 28,000 R.P.M.) motor 0.9 amps., 115 V., 60 Hz., AC.
Includes larga assortment of 40 popular accessories in deluxe, double compertment storage case. **Size of tool:** 7-1/4" long x 1-7/8" diametar; waight 2 lbs.

DREMEL® MOTO-TOOLS AND KITS
Constant Speed Moto-Tool® Kit
MODEL 2701 OUR PRICE $69.95 NEW!

DESCRIPTION
A speciel tool for epecial jobs in home, hobby end craft applications. Contains 30 useful eccassorias in a tough polyethylane storage casa. Cut, sharpen, polish, rout, grind, carva, engreva and more. Contains model 270 Moto-Tool with permenantly lubircatad bronze sleeve baarings. 0.8 amp. motor, 115V., 60 Hz., AC., 5-foot 3-conductor cord. **Size of tool:** 7-1/4" long X 1-7/8" diametar; weight 2 lbs.

BP HEAT SHRINK TUBING
MODEL H3-462
OUR PRICE
$1.45 per pkg.
10 PKGS FOR
$12.50



FEATURES
- Heat shrinkeble tubing.
- 10 aasorted diameters per peck.
- Srinks 50% in diemetar. • Shrinka 5% in length et 120° C.

DESCRIPTION
Shrinks to half its originel siza whan heated. Use it for insulating terminals, connactors, tool hendles, wire spilcas. Use haat gun, oven, barral of eoldaring iron or just a match. Assorted sizes and colors.

DREMEL® MOTO-TOOLS DRILL PRESS ATTACHMENT
NEW!
MODEL 210
OUR PRICE
$34.95

DESCRIPTION
Parfact for drilling and routing. Tha prase is only 12 in. high. Tabla cen be reisad or lowered; locks in eny position for eccurata depth adjustmant.
For modals 250, 270, 260, 370 end 380 Moto-Tools. Moto-Tool not included with drill press.

DREMEL® MOTO-TOOLS
FOR HANDICRAFTS, WOODWORKING, CARVING, ETCHING, GRINDING AND MUCH MORE!

MODEL 250 OUR PRICE $49.95
Constent speed 30,000 R.P.M. Moto-Tool is quiet and smooth running. Lubricated bronze sleeva bearings. Sarias wound motor providas dependeble powar, consistent parformance. Amps 0.8s.

MODEL 270 OUR PRICE $56.95
Constent speed 30,000 R.P.M. Moto-Tool runs cool under loed conditions. Permenantly lubricated bronza slaave bearings. Reliabla parmanant megnet motor for staady, reliabla power. Amps 0.8

MODEL 280 OUR PRICE $68.95
Constent speed 30,000 R.P.M. Ball baaring construction for long ilfe end smooth operetion. Amps 0.8

MODEL 370 OUR PRICE $69.95
Verlebie speed Moto-Tool, 5,000 - 28,000 R.P.M. allows user to select the right speed for avery job. Life-time lubriceted bronza sleeve beerings. Permenant magnet motor for eteady power, smooth oparetion. Amps 0.75 low speed, 0.9 high speed. Externel caps allow for easy replacamant of motor bruahas.

MODEL 380 OUR PRICE $79.95
Variable speed Moto-Tool 5,000 - 28,000 R.P.M. allows user to select tha right speed for avary job. 100% ball bearing construction for long life, emooth operation. Permanent megnet motor providas eteady, dependable power. Amps 0.75 low speed, 0.9 high speed. External caps allow for aasy replecement of motor brushes.

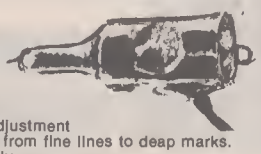
TABLE TOP SPEED CONTROL FOR MOTO-TOOLS
MODEL 219 OUR PRICE $34.95
Lets you dial speads up to full R.P.M. 5 AMP capecity.

COL-FLEX HEAT SHRINKABLE TUBING

DESCRIPTION
Polyvinylchloride (PVC) tough, flexibla and anug fitting over eplices, terminele and components. Shrinks 50% of I.D. elze. Usa haat blowar, solder iron or match. Aveilebia in 10 ft. coil.

Model	Inside Diemeter	Our Price
HS-1	1/8"	$3.00
HS-2	3/16"	3.25
HS-3	1/4"	3.50
HS-4	5/18"	3.95

DREMEL ELECTRIC ENGRAVER
MODEL 290
OUR PRICE $19.95



DESCRIPTION
Writas lika a pencil on material from hardened staal to glass. Cellbratad etroke adjustment ragulatas dapth of engreving from fine lines to deap marks. 115V., 0.2 AMP, 60 Hz, AC only.

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

TECHNICIANS AIDS/ALIGNMENT TOOLS

WORKMAN CVP POCKET MULTITESTER

Patent No. 4066953

MODEL 33-133 OUR PRICE **$9.95**

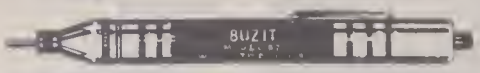
DESCRIPTION

This is not just another continuity checker. In fact, this amazing pocket tester is so unique, it's patented. It does everything! And it does it without expensive meters and hard-to-handle test leads. CORDLESS. SWITCHLESS. With just a touch of the probe, you can test for: • Continuity •Voltage •Polarity Test 8 volt to 240 VAC — 1 volt to 90 volt DC. The 100% solid state CVP multitester can be kept in pocket or tool box to instantly check:

WORKMAN BUZIT TRANSISTORIZED SIGNAL TRACER

MODEL 33-135

OUR PRICE **$11.95**



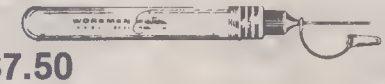
DESCRIPTION

For checking continuity in auto windshield antennas. Used for troubleshooting IF circuits, AF circuits, RF circuits, continuity checks and speakers. Batteries, clips and wires not included.

WORKMAN PRECISION OILER

In Flexible Pocket Dispenser

MODEL PO-1



OUR PRICE **$1.69** each 5 FOR **$7.50**

Fine lubricating oil in precision applicator.

GC ELECTRONICS MINI DRILL

Portable, Precision Power Tool

MODEL H3-444

OUR PRICE **$17.95**

DESCRIPTION

For drilling PC boards, wood, plastic and thin metal. Operates on 2 'C' batteries (not included). Speed: 6,000 rpm. Drill Size: 0.8-1.2mm. Instructions, 1.0mm halfmoon type drill and chuck tool supplied.

GC ELECTRONICS MICRO METER

MODEL 20-224

OUR PRICE **$10.95**

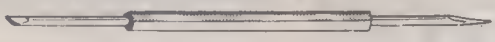
DESCRIPTION

An economical device that quickly and accurately detects excessive microwave radiation levels. Cast nylon body is tough and crush resistant. Rugged meter mechanism needs no batteries and is built to maintain its accuracy. Weighs only 1/2 oz. and measures just 4-5/8" in length.

REAMER AND SCRAPER TIP 8-1/2" long—plastic handle

MODEL 9069

OUR PRICE **$2.95**

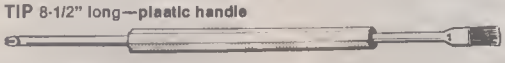


Twist proof, chrome plated steel to prevent solder from sticking to tool. Reamer and scraper tips for scraping joints or reaming out lug holes. Both ends are insulated from each other.

BRUSH AND FORKED TIP 8-1/2" long—plastic handle

MODEL 9073

OUR PRICE **$2.95**

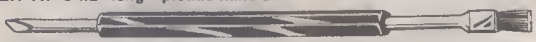


Brush on one end, forked tip on other. Forked tip is for twisting or holding wires. Both ends are insulated from one another.

BRUSH AND SCRAPER TIP 8-1/2" long—plastic handle

MODEL 9074

OUR PRICE **$2.95**

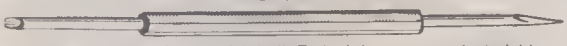


Brush on one end for dusting away excess solder chips, and scraper tip for scaping joints. Both ends are insulated from each other.

STRAIGHT REAMER AND FORKED TIP 8-1/2" long—plastic handle

MODEL 9075

OUR PRICE **$2.95**

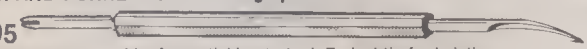


Made from heat treated tool steel, solder will not stick to it. Forked tip on one end, straight reamer on other end. A must for serviceman's bench or tool kit.

ANGLE REAMER AND FORKED TIP 8-1/2" long—plastic handle

MODEL 9076

OUR PRICE **$2.95**



Heat treated tool steel prevents solder from sticking to tool. Forked tip for twisting or holding wires, angled reamer on other end.

STRAIGHT REAMER AND FORKED TIP 8" long—plastic handle

MODEL 9086

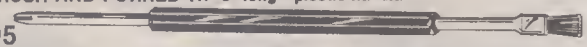
OUR PRICE **$2.95**

Straight reamer for cleaning out lug holes, forked tip is ideal for twisting or holding wires. Chrome plated steel to prevent solder from sticking to tool.

HEAVY DUTY BRUSH AND FORKED TIP 8" long—plastic handle

MODEL 9088

OUR PRICE **$2.95**

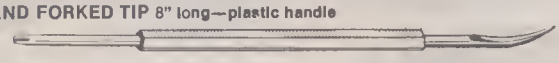


Made of special stainless steel with hardened probe. Solder will not stick to it. One end has a stiff wire brush for cleaning off solder terminals. The other end is machined to help in unsoldering wires which are wrapped around terminals and lugs, and for holding wires.

ANGLE REAMER AND FORKED TIP 8" long—plastic handle

MODEL 9093

OUR PRICE **$2.95**

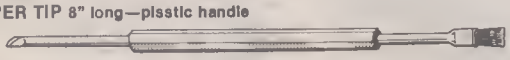


Handy, fine point probe specially designed to aid in probing and soldering printed circuits. Made with special stainless steel hardened probes, solder will not stick to tool.

BRUSH AND SCRAPER TIP 8" long—plastic handle

MODEL 9094

OUR PRICE **$2.95**

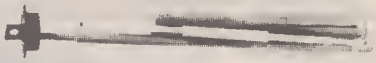


Fine stainless steel brush and hardened steel scraper are required to scrape and clean the silicone resin from the printed circuit before any repair can be made. Saves time on printed circuits.

TOUGH-7 COLOR TV-FM-AM-CB ALIGNMENT TOOL

MODEL Tough-7

OUR PRICE **$2.95**



FEATURES

- Seven of the most popular alignment tools.
- Engineered to overcome excessive wear and the problem of high torque end breakdown of cores.
- Developed for use in factories where tools are in constant use, the 'Tough 7' are ideal for long wear life in the field.
- Handy for the caddy and also for the work bench.
- Individual tools available in bulk form.

GC ELECTRONICS UNIVERSAL COLOR TV ALIGNMENT TOOL

MODEL 8454

OUR PRICE **$4.99**

DESCRIPTION

5 different alignment tools for all standard adjustments in color TV. Shaft extension, Zenith alignment tool, hex wrench—5", hex iron core tool, hex core tool, double end tool.

GC ELECTRONICS STANDARD TV ALIGNMENT TOOL KIT

MODEL 8455 OUR PRICE **$11.95**

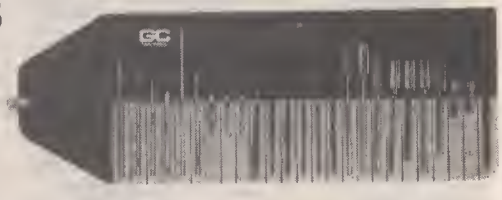
DESCRIPTION

Made to last and wear—a quality kit. Kit contains the following essential tools in roll type case:
5004 Adjustment Screwdriver
5097 K-Tran Tool
8195 TV Channel Tuning Tool
8196 TV-FM Tuning Tool
8271 Core Aligner
8273 TV Aligner
8274 Long Aligning Tool
8275 Universal Aligner
8278 Duplex Aligner

GC ELECTRONICS MASTER DELUXE TOOL KIT

MODEL 8283

OUR PRICE **$19.95**



DESCRIPTION

Designed for the electronic technician who likes a complete assortment of alignment and adjustment tools. Kit also includes tools used on mobile communication, marine and amateur gear. Contains 1 each:

5000 Alignment Screwdriver
5004 Adjustment Screwdriver
5066 Nuetralizing Tool
5080 Alignment Wrench
5097 K-Tran Tool
8195 TV Channel Tuning Tool
8196 TV-FM Tuning Tool
8271 Core Aligner
8273 TV Aligner
8274 Long Aligning Tool
8275 Universal Aligner
8278 Duplex Aligner
8277 Shorty Duplex Aligner
8279 Core Aligner
8282 Zenith Alignment Tool
8289 Shorty Aligner
8290 Universal Aligner
8606 Hex Wrench-5
8809 Alignment Tool
8721 2-IN-1 Alignment Tool-9
8722 2-IN-1 Alignment Tool-7
8727 K-Tran TV Aligner
8728-A Screwdriver-12
8887 Tel-A-Turn Tool
9090 Shorty Alignment Tool

ILLUMINATED MIRROR

MODEL 8725 OUR PRICE **$7.95**

Hinge mounted mirror fastened to 6" lucite rod, which transmits light from small anodized aluminum flashlight. Locking switch for on-off, one hand operation. Bulb included. Insulated shaft. Overall length: 12-1/4", mirror dia. 7/8", frame o.d.1-1/16".

SHATTERPROOF TV MIRROR AND STAND

MODEL 8381 OUR PRICE **$29.95**

Plexiglass mirror and adjustable stand. Swivel mount adjusts to view screen without moving tripod support. Wide range of adjustments.

COLOR TV SERVICE MIRROR

MODEL 8390 OUR PRICE **$19.95**

10" x 12" mirror in nickel plated metal frame. Distortion-free image. Fully adjustable, collapsible. Mirror and stand.

INSPECTION MIRROR

MODEL 5090 OUR PRICE **$2.50**

Allows under-chassis viewing. Metal shaft, glass mirror, plastic handle 7-7/8" long.

SHOCKPROOF INSPECTION MIRROR

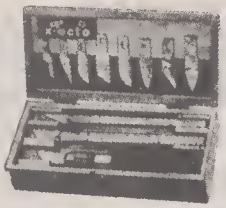
MODEL 5090-P OUR PRICE **$1.25**

Plastic insulated allows inspection while chassis is hot. No danger of shorting. Allows limited space viewing. 7-7/8" long.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

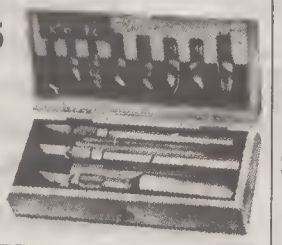
SPECIALTY TOOLS

X-ACTO KNIFE CHEST
MODEL 5082
OUR PRICE **$12.95**



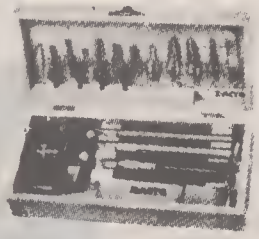
DESCRIPTION
Nos. 1, 2 and 5 knives plus 14 assorted extra blades. Fitted chest.

X-ACTO DELUXE KNIFE CHEST
MODEL 5083
OUR PRICE **$16.95**



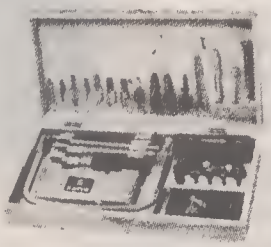
DESCRIPTION
Nos. 1, 2 and 6 knives plus 18 assorted extra blades. Fitted chest.

X-ACTO KNIFE AND TOOL CHEST
MODEL 5086
OUR PRICE
$29.95



DESCRIPTION
Nos. 1, 2, 5 knives and assortment of blades, gouges, routers. Has planer, sander, spokeshave, balsa stripper. Fitted wood chest.

X-ACTO KNIFE AND TOOL CHEST
MODEL 5087
OUR PRICE
$36.95

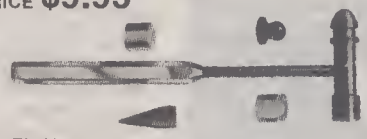


DESCRIPTION
Contains everything found in No. 5086 (see description) plus: punch, hobbycraft saw, pin vise, screwdriver, assorted drill bits. Fitted wood chest.

X-ACTO DELUXE WOODWORKING KIT
MODEL 5089
OUR PRICE **$99.95**

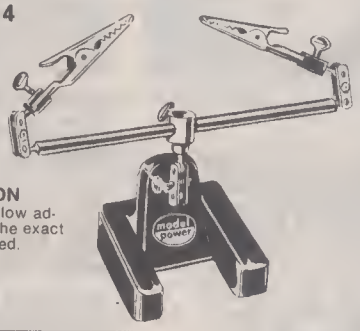
DESCRIPTION
This deluxe woodworking kit includes all wood carrying case, 4 routers, 4 gouges, 1 razor saw blade, coping saw with extra blade, block planer, light duty knife and blade, heavy-duty knife, assorted blades, hammer, hand drill, contoured sander set, file handle with 3 needle files, long-nose plier, heat sink, screwdriver, jewelers screwdriver, screwdriver bit and 2 drill bits. "Project Handbook and Tool Guide" also included.

X-ACTO HAMMER SET
MODEL 7050
OUR PRICE **$9.95**



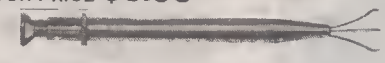
DESCRIPTION
7" all-metal handle with 6 different interchangeable heads: 2 round steel, 1 flat steel, 1 flat brass, 1 flat plastic, and 1 tinner's steel.

X-ACTO
X-TRA HANDS
MODEL 7514
OUR PRICE
$10.95



DESCRIPTION
6 ball joints allow adjustments to the exact angles you need.

PARTPICKER
MODEL 7380
OUR PRICE **$3.95**

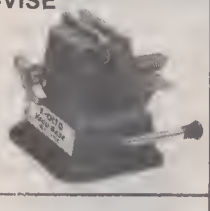


DESCRIPTION
For small hard-to-handle pieces. Smooth one-hand action.

X-ACTO
X-TRA HANDS WITH MAGNIFIER
MODEL 7517
OUR PRICE **$16.95**

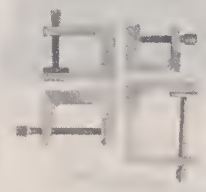
DESCRIPTION
2X magnification—holds work firmly in any position to leave hands free. Double ball joints for adjustment at any angle.

X-ACTO MINI VACU-VISE
MODEL 7370
OUR PRICE **$7.95**



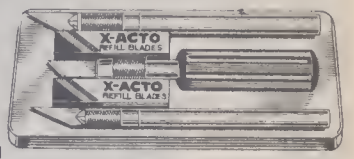
DESCRIPTION
No screws. Lever flips to hold tightly and instantly on non-pourous surfaces such as glass, formice and metal. Maximum opening. 1-1/4"

X-ACTO
C CLAMP SET
MODEL 7446
OUR PRICE **$7.95**



DESCRIPTION
4 assorted C clamps. Lightweight, high-strength aluminum with steel screws. Aluminum lock plates

X-ACTO TRIPLE KNIFE SET
MODEL 5081
OUR PRICE **$9.95**



DESCRIPTION
Nos. 1 and 5 Knives, No. 2 Knife handle with No. 24 blade, plus No. 1 and No. 2 blade assortments. In handy clear plastic case. Boxed.

WEN POWER TOOL
MODEL 2336
OUR PRICE **$89.95**

EXTRA SPECIAL!

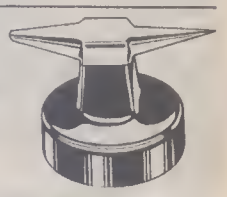
DESCRIPTION
An elite group of precision power tools. Unique new tools—portable, powerful, compact—to drill, solder and saw. To shape, sand, polish, engrave. Easy to hold and handy to use. Will operate from Transformer Power Pack, 12V DC car, boat battery, 9-12V dry cell battery or flashlight battery pack. Will handle a wide range of work around home, farm; in cars, vans, trailers; on boats and remote out of doors; ideal for model making and hobby and craftwork.

FEATURES
- Precision power tool, 14,500 RPM
- Precision jig saw, 4000 SPM; angle cuts 0 to 45°
- Precision 1/4" capacity drill; removable grip handle; 1200 RPM
- "Hot Shot" solder gun; melts solder in 3 to 5 seconds.
- 12 volt power supply transformer
- Cigarette lighter power adapter
- Accessories kit; carry/storage chest

WEN ELECTRIC PENCIL ENGRAVER
MODEL 21
OUR PRICE **$12.95**

DESCRIPTION
Use like a pencil! Write, draw, engrave on woods, metals, plastics, glass, etc. Super hard tungsten carbide tip; 7200 SPM. Variable stroke adjustment for heavy, wide, fine line engraving. 120V AC. 6-units to master ctn. 5-1/4 lbs. Boxed or carded. Two warning stickers included with each unit to tie in with nationwide program of reducing burglaries by having home owner code-mark all valuables for positive identification if stolen.

X-ACTO ANVIL
MODEL 7058
OUR PRICE **$11.95**



DESCRIPTION
Forged, tempered tool steel. Size: 3-1/2" x 3/4" x 2-1/2". Round horn tapers to 3/32" diameter. Boxed.

X-ACTO CORDLESS POWER DRILL SET
MODEL 7377
OUR PRICE
$19.95

DESCRIPTION
A battery operated drill for light-weight metals, wood and plastics. Operates on 2 standard "C" flashlight batteries (not included).

FEATURES
- 3 collets for variable drill bit selection, sizes .025", .045" and .093".
- 1 grinding wheel
- 6 assorted drill bits, sizes .028", .032", .040", .062", .078", .093"
- Will take standard drill bits and accessories up to .093"

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

PRINTED CIRCUIT ACCESSORIES

BP DIGITAL TRAINER

NEW!

MODEL DT-01 REG. $149.95 OUR PRICE $99.95

DESCRIPTION

The object of designing DT-01 Digital Trainar is to provide tha junior colleges, rasaarch organizations, training centere, factorias and amateur hobbists with the most convanient way of logic circuit training and dasign equipment.
Schools and training cantare can use the DT-01 as a teaching aid. It encompassas the following items: Breadboarding, Digital Circuits, Flip-flops and Monostable Multivibrators, Countars, Encoders, Dacodars, Multiplexars, Demultiplaxers and Saquencer, Regleters, LED and 7 Segments LED Displays, Mamory Devicee, atc.
The Digital Trainer can be connactad to an oscilloscope, signal generator and any othar apparatus through two BNC jacks and two BANANA jacks. Moet tests can be performed by the logic probe supplied.
By using the breadboard and crib sheet the user can insart any circuit onto the breadboard to procaad with an experimant for testing without eoldering. All the components can be usad repeatly. The DT-01 is not dependant on AC power, the battery holder contains 4 AA cell batteries for portable use.

SPECIFICATIONS

AC ADAPTOR JACK: I/P DC +12V, 800mA. **POWER SW.:** AC Adaptor, 4 AA Call batteries. **PULSE SW:** Two bounce-free pushbuttons. **LOGIC SW:** Eight logic lavel switchas in DIP typa. DC O/P: DC +5V, 750mA for user. D-023 **BREADBOARD:** Solderless braadboard with 1580 interconnected tie points. **CLIP TERMINAL:** Logic probe clip terminal. **BATTERY HOLDER:** 4 AA call batterias. **LED DISPLAY:** Eight LED bufferad logic lavel indicators. **BNC JACKS. SELECT SW.:** Clock range eelection L: 10 - 40 Hz, H; 1K - 20K Hz. **BANANA JACKS. CLOCK ADJ.:** Fine adj. of clock frequency. **STANDARD ACCESSORIES:** AC Adaptor, Logic Probe, Battery Holder.

GC ELECTRONICS NEGATIVE ACTING LIFT-IT KIT

MODEL 22-318

OUR PRICE $29.95

DESCRIPTION

Kit for making finished PC boards from any printad page layout. Apply Lift-it Transfer Sheets and drawing is transformed into clear, insoluble plastic film that can ba ueed ae a 'positive' for making PC board 'nagative'. Eliminates time consuming drawing or photographing of circuits and reproduces axact circuit design with no chance of arror.

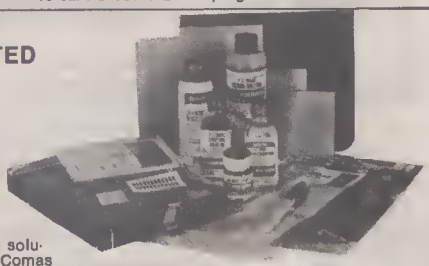
CONTENTS

- 2 Lift-it transfer shaate (8-1/2" x 11").
- 1 mylar shaat (8-1/2" x 11").
- 1 contact film (10" x 12").
- 1 plastic etching tray (5-1/4" x 7-1/4").
- 2 aluminum developing trays (4-1/4" x 6-3/4").
- 1 step-by-step instruction booklet.
- 2 oz. PC contact film daveloper.
- 2 oz. etch resist sansitizer.
- 1/2 oz. atch resist lacquer.
- 2 oz. PC board stripping solution.
- 8 oz. PC board etching eolution.
- 16 oz. PC board developing solution.

GC ELECTRONICS POSITIVE METHOD PRINTED CIRCUIT KIT

MODEL 22-310

OUR PRICE $29.95



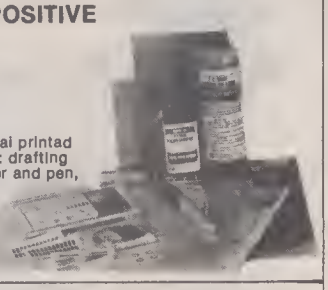
DESCRIPTION

Complete kit for making 2 complete printed circuit boards using tha positive mathod. Kit contains: 2 presensitizad PC boerds (3" x 4" and 4" x 6"), daveloper concantrate, etching solution, etch resist pen and drafting aids. Comas complate with instruction manual and plastic casa. Chemicals and accaesories are sufficient for an additional 5 to 10 boards, depending on size.

GC ELECTRONICS DELUXE POSITIVE METHOD PRINTED CIRCUIT KIT

MODEL 22-312

OUR PRICE $49.95



DESCRIPTION

Includas all essential materials for making profassional printad circuit boards using tha poeitive method. Kit containe: drafting aids, tray set, etch resist seneitizer, etch rasist lacquer and pen, developer concentrate, etching solution, stripping eolution, layout film (2 sheets—6-1/2" x 11"), contact frame, drill bits, 4 pra-saneitizad PC boards (one each 4" x 3" and 8" x 8") two 4" x 8" and a printed circuit handbook.

GC ELECTRONICS NIBBLING TOOL

MODEL 805 OUR PRICE $9.95

DESCRIPTION

This unique hand oparated nibbling tool cuts sheet metal vary similar to a chessis punch. Simply start with a 3/8" hole and nibble to ahape and size deeired. Easy to use, yat it cuts up to 18 Ga. (.048 max.) staal, 1/18" copper aluminum and plastic.

GC ELECTRONICS "LIFT-IT" TRANSFER SHEETS

MODEL 22-288 OUR PRICE $7.95

DESCRIPTION

A new, 20 minute procass to make PC patterns from printed artwork without camera or chamicalsl Use with positive or negative PC board production processae. Two 8-1/2" x 11" shaets and one 8-1/2" x 11" mylar shaet. Illustrated step-by-step instructions.

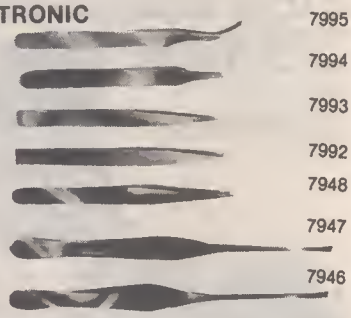
GC ELECTRONICS POSITIVE ACTING LIFT-IT KIT

MODEL 22-316 OUR PRICE $19.95

DESCRIPTION

Designad for use with pre-sensitizad, positive type PC boerde (two included). Thie kit usas same proceee for kit 22-318, except does not include the material for reversing image to obtain a 'nagative'.

GC ELECTRONICS ELECTRONIC ASSEMBLY TWEEZERS



PRECISION QUALITY

For electronic and fine assembly work where non-contamination is essential. Stainless staal—non-magnetic.

7992—5-1/2" long—beveled points..... $6.95
7993—4-1/8" long—fine points..... 7.95
7994—4-1/4" long—extra fine points... 9.95
7995—4-1/2" long—curvad points..... 8.95

SUPERIOR QUALITY

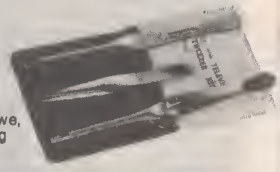
Nickel plated forged steel.

7948—6-1/2" long, self cloeing, blunt points (serratad)..... $2.95
7947—6-1/2" long, slida lock, smooth points..... 2.95
7948—4-1/2" long, fine points..... 2.95

GC ELECTRONICS TWEEZER KIT

MODEL 7950

OUR PRICE $9.95



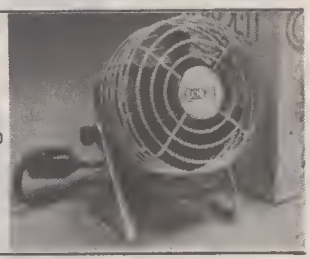
DESCRIPTION

For the shop or laboratory, to pick up small parts, start screwe, to gat into hard-to-reach places, stringing dial cord, fastening eprings—numaroua uses. Kit contains one of each of 7943, 7947, 7948.

COOOL-IT MINI FAN

MODEL 4154

OUR PRICE $22.95



DESCRIPTION

it's a breeze At 3100 RPM, COOOL-IT movee a big 50 cubic feat of air every minute. And does it with about one fifth the alectricity used by a 80 watt lamp.
COOOL-IT is UL approved, so powerful yet so compact. COOOL-IT stands 4½ inches high, 3½ inchas wide and 4 inches deep.

MAGNA-LITE JR. QUALITY MAGNIFYING LENS

MODEL 9498 OUR PRICE $4.98

FEATURES

- Powerful Optical-Quality magnifying lane with light.
- 1-1/2 oz. lightweight.
- Complete with 2 easily rapiaced AA penlight battarles.
- Size: 4-3/4" x 1-1/2".
- Packed in a handy counter display.
- Repiacament bulbe: Smell Magna Lite Jr, 222.

Ideal For:

- Printed microcircuit reading.
- Electronics—design, production and inspection.
- Industrial—engineers, technicians and draftsmen.
- Laboratory and research.

MAGNA-LITE QUALITY MAGNIFYING LENS

MODEL 9499

OUR PRICE $9.98

DESCRIPTION

Lets you focus on the finest datail regardless of lighting conditions.

FEATURES

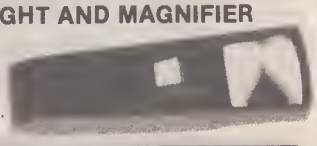
- Powerful 2X Optical-Quality magnifying lans with light.
- 7-1/2 oz. lightweight.
- Completa with 4 easily repieced penlight batteriee.
- Size: 9-1/6" x 3-3/4".
- Std. Pkg 1 individual display pack.
- Repiacamant bulbs: Large Magna Lite PR12.

Ideal For:

- Electronics—design and production.
- Lab techniciane and engineers.
- Industrial inspection and Q.C.

UNBREAKABLE POCKET FLASHLIGHT AND MAGNIFIER

MODEL 300 OUR PRICE $9.95



FEATURES

- Amazing new Super Power pockat flashlight and magnifiar. • For extra-cloee work. • Powerful light.
- Approximately 10X precielon lens. • Color Gray.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

FREE
UNGAR 9100 with purchase of UNGAR 4000-U

UNGAR HOT VAC DESOLDERING SYSTEM

MODEL 4000-U
REG. $599.95 **OUR PRICE $419.95**

DESCRIPTION
The built-in vacuum pump eliminates the need for shop air. Its compact design and portability make it ideal for use at any location where there is an AC electrical plug-in outlet. What makes UNGAR's Hot Vac 4000 truly unique are a number of exclusive engineering features which add up to system reliability, greater productivity and operator efficiency.

Self-Contained, Super-Quiet Air Pump
The vacuum pump is not only virtually maintanance free, it is remarkably quiet. The pump operates only when the handle switch is actuated. Sound is further reduced by its low-noise exhaust system and UNGAR's new method of pump mounting, which effectively absorbs noise and vibration.

Temperature Control
The Hot Vac 4000 has a variable solid-state control that adjusts the tip temperature from 500°-1000°F. approx. (250°-500°C). A non-magnetic load mosulated heater provides instantaneous temperature recovery. An electric circuit assures that transient spikes are fully suppressed thereby making the system safe for desoldering voltage-sensitive components. Collected solder is stored in a built-in visible reservoir which may be emptied, even when the heater is hot.

UNGAR ELECTRONIC TEMPERATURE CONTROLLED SOLDERING SYSTEM

MODEL 9100
REG. $99.95 **OUR PRICE $119.95**

FEATURES
System 9100 includes: base unit with built-in controller, micro-size handle with THERMO-DURIC heater, 1/16" #9012 screwdriver tip, sponge and tip tray, sponge, and Iron Holder.

DESCRIPTION
When your requirements demand variable temperature control, but you're on a limited budget, look to our System 9100. Incorporating many of the great design features highlighted in the System 9000, the System 9100 offers a lower cost alternative in an operator-adjustable, temperature controlled soldering system. And its compact size makes it easy to use in any environment.

SYSTEM 9100 HIGHLIGHTS
- Electronic, closed-loop temperature control for maximum precision.
- Temperature is operator-adjustable from 400°F to 800°F.
- Continuous, variable control so you can select the exact temperature you need.
- Neon "on-off' light. • Flexible, heat-resistant cord.
- IronHolder can be right- or left-hand mounted to accommodate all operators.
- The trim Micro-Size handle reduces operator fatigue and the efficient thermal transfer characteristics of the THERMO-DURIC heater delivers the heat to the tip and away from the handle for cooler operation.

UNGAR CONTROLLED SOLDERING STATION 700°

MODEL 9270 **OUR PRICE $110.00**

DESCRIPTION
System 9270 includes: system module, base, handle with THERMO-DURIC heater, 1/16" #87 screwdriver tip, sponge and tip tray, sponge, and Iron Holder.

Ungar also offers an excellent fixed heater temperature system — the 9270. It combines the functional, modular design of the System 9000 with a fixed temperature system that allows you to change soldering temperatures with a simple substitution of the heater.

FEATURES
- THERMO-DURIC heater.
- Tip temperature is maintained ±20°F.
- Tip temperature can be easily changed by the operator by changing heaters.
- Circuit breaker overload protection.
- Compact, modular construction.
- Module can be mounted on a bench, wall or shelf. For mounting kit, order part no. 9084 Includes: mounting brackets, screws and instructions.
- Reversible sponge/tip tray.
- Neon "on-off' light.
- Iron Holder can be right- or left-hand mounted to accommodate all operators.
- The trim heater/handle assembly stays cool for easy operation.
- 24VAC. • Flexible, heat-resistant cord.

UNGAR SOLDERING SYSTEM

MODEL 9000 **OUR PRICE $179.95**

FEATURES
- System module.
- Base.
- Micro-size handle with THERMO-DURIC heater.
- 1/16" screwdriver tip.
- Tip tray with sponge.
- Iron holder.
- Operating instructions.

DESCRIPTION
The temperature-controlled System 9000 is the no-compromise choice for soldering CMOS and other sensitive electronic components.

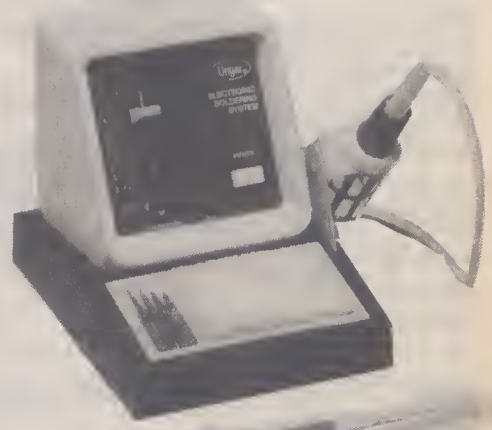
System 9000's lightweight, micro-size handle soldering iron utilizes the unique THERMO-DURIC heater element operating at 24 volts for superior temperature control.

The ruggedly constructed control unit houses a sophisticated electronic system which automatically regulates the temperature of the soldering iron to within ±10°F through an adjustable 20-step range of 420°F to 800°F. Easily calibrated at the work station, the operating temperature of the soldering iron is displayed on the bright LED bar graph which can be seen several feet away. Switching is done electronically with a zero crossover network which reduces transient spikes to less than 60 mV.

Ungar's exclusive long-life, iron-clad, chrome-plated tips provide maximum heat transfer between heating element and tip, as well as optimum control response to variations in tip load. And the tips are fully grounded.

The control unit may be used in the base with the sponge and spare tip tray, or mounted separately at a work station. Also, the iron holder is reversible for right-handed or left-handed operators.

SPECIFICATIONS
- 120V input.
- 2.0 amps 24V soldering iron with heat-resistant cord.
- Three-wire grounded tip.
- Micro-Size Handle: 4.20" long, ideal for precision soldering as well as general work.
- Dimensions: 6.0H x 5.9W x 7.6L inches.
- Shipping Weight: 5 lbs.

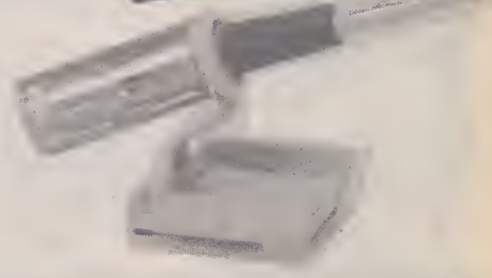


UNGAR 700° MICRO-SOLDERING KIT

NEW! SPECIAL!

MODEL 9375 **OUR PRICE $44.95**

DESCRIPTION
Specially designed for micro electronic soldering, fully grounded tips. Includes Model 9370 Soldering Iron, 3 interchangeable long-life tips, Models 9010, 9011, and 9012. Model 9800 non-slip iron holder cleaning sponge and tray.



SOLDERING EQUIPMENT/ACCESSORIES

WELLER PENCIL THIN SOLDERING STATION

MODEL WM-120

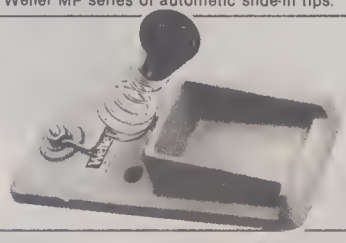
OUR PRICE **$22.95**

DESRIPTION

The Weller WM-120—12 watt minieture packs quality features standerd from Weller into a lightweight, pencil thin soldering iron with e breek-resistent stey-cool handle.

Designed for soldering minieture heet end voltege sensitive components where precision touch is essentiel, the WM-120 weighs .7 ouncee end meesures 7" less tip. It developes e tip tempereture of 800°F and accomodates the Weller MP series of autometic slide-in tips.

WELLER SOLDERING TOOL STAND



For WM-120 Iron

MODEL PHM-120

OUR PRICE **$12.95**

DESCRIPTION

Soldering tool stend with bese, sponge end receptacle.

WELLER DE-SOLDERING ADAPTOR

MODEL DSTCP

OUR PRICE **$19.95**

DESCRIPTION

Versetile attachment for Models WTCPN, WTCPZ end WTCPL permits operetor to de-solder and re-solder with the seme tool.

WELLER DE-SOLDERING BULB

MODEL AC-303P

OUR PRICE **$6.25**

WELLER SOLDERING TOOL STANDS

DESCRIPTION

Specifically designed to extend life of Weller tools. PH stends heve heavy non-sliding cast bases with sponge receptacle end "non-heet-sinking" spring stand and funnel. SF stends comprised of epring end funnel only, for bench, wall, and side rell mounting.

Bench Stand

Model	Description	Our Price
PH-25	Versetile bench stend cen be either free stending or mounted. Sturdy eluminum construction. Prevente ecclidentel burns on bench or work surface. Keeps iron hendy end reedy for eolder-ing. For WP-25 end WP-40 irons.	$ 9.95
PH-60	Soldering Tool Stand, with base end sponge. For W-60, WP-25, WP-40, WPS end Irons with barrel dlemeters up to 15/32".	11.95
PH-100	Soldering Tool Stand, with eponge. For W-100 end Irons with berrel dlemeters up to 19/32".	13.95

WELLER PROFESSIONAL SOLDERING IRONS (Series WP)

For Industrial Applications, Tradesmen, Hobbyists

DESCRIPTION

Top quellty, Industriel grede. Rugged etelnless eteel berrel. Long life double coated tips. Populer pencil styling. Light blue hendle with bleck heet shield, cool comforteble grip. Only 7-7/8" long; 1-3/4 oz. Blister peck. UL listed.

MODEL WP-25

OUR PRICE **$19.95**

20 wett. 1/18" screwdriver tip. 2-wire cord. 120V. One per cerd.

MODEL WP-40

OUR PRICE **$24.95**

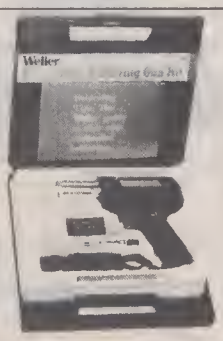
35 watt. Screwdriver tip. 2-wire cord. 120V. One per cerd.

WELLER HEAVY DUTY SOLDERING GUN KIT

240/325 watts

MODEL D-550PK

OUR PRICE **$29.95**



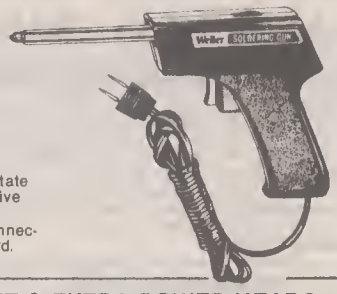
DESCRIPTION

6-piece Heavy Duty Soldering Kit feeturing the versetile Weller® Model D-550 Heevy Duty Dual heet eoldering gun. Pecked in stur-dy, plestic cerrying cese. Kit includes heevy copper soldering tip, one eech smoothing and cutting tips for thermoplestic, tile, etc., tip chenging wrench end e coil of 60/40 rosin core eolder. Also included is e comprehensive, illustreted "Soldering Tips" booklet of precticel soldering procedures, flux selection end eolder-eblility chert.

WELLER SOLID STATE SOLDERING GUNS (Series GT)

MODEL GT-7A

OUR PRICE **$36.95**



700°F, 150W. Tip 3/18" chisel point.

MODEL GT-6B

OUR PRICE **$36.95**

600°F, 150W. Tip 1/8" cone point.

DESCRIPTION

Fast, temperature-controlled, for solid-state electronic work. Will not damage sensitive components. Lightweight, 7 oz.

Double coated tips tested for 30,000 connec-tions. Slim, long reach barrel. 2-wire cord. 120V. Carded. UL listed.

WELLER REPLACEMENT & EXTRA POWER HEADS

MODEL 7A for Model GT-7A 700°

OUR PRICE **$24.95**

MODEL 6B for Model GT-6B 600°

OUR PRICE **$24.95**

WELLER CONTROLLED OUTPUT INDUSTRIAL SOLDERING IRONS (Series W)

DESCRIPTION

High quality tools with controlled tempereture. Selection (600°, 700°, or 800°F) by changing tips. New blue color. 120V 50/60 Hz. Use only with Weller PH end SF series soldering tool stands to effect e complete soldering station. These are eutometicelly controlled tools and should be used with 'non-heat-sinking' Weller stende. Use of improper metallic stands will af-fect life of tool and tip. Boxed.

MODEL W-60

OUR PRICE **$36.95**

DESCRIPTION

Versatile 60-watt iron, a compact 7-1/4" long and lightweight at 2-1/2 oz. Furnished with 700°F, 1/16" screwdriver tip No. CT5A7 and 2-wire cord.

MODEL W-100

OUR PRICE **$42.95**

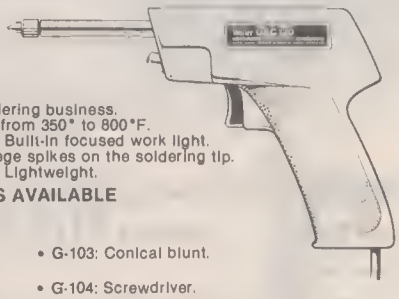
DESCRIPTION

For heavier-duty use, this 100-watt iron is 8-1/4" long end weighs 3-1/2 oz. Furnished with 700°F, 3/8" ecrewdriver tip No. CT6F7 end 2-wire cord.

WELLER SOLDERING GUN

MODEL GEC-120

OUR PRICE **$74.95**



FEATURES

- 120V, 150W.
- A new tool to revolutionize the soldering business.
- Tempereture continuously verieble from 350° to 800°F.
- Fest heet et the pull of e trigger. • Built-in focused work light.
- Built-in circuitry prevents high voltege spikes on the soldering tip.
- 4 different sheped tips evailable. • Lightweight.

FOUR INTERCHANGEABLE TIPS AVAILABLE

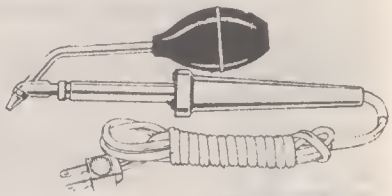
OUR PRICE **$5.95** eech

- G-101: .045" diameter, long conicel.
- G-102: .020" diameter, conicel.
- G-103: Conical blunt.
- G-104: Screwdriver.

WELLER PROFESSIONAL DESOLDERING/REPAIR TOOL

MODEL DS-40

OUR PRICE **$39.95**



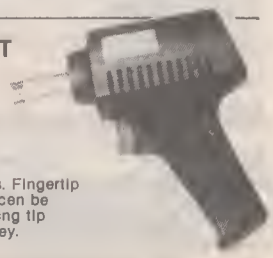
DESCRIPTION

Invalueble repair tool. A must for servic-ing modern printed circuit boards end solid state electronics. Remove and replece components quickly with less chance of heat damage. Complete tool includes hendle, vacuum bulb, desolder-ing essembly and tip with .083 in. open-ing. 40W. 120V. 2 wire cord.

WELLER STANDARD LIGHTWEIGHT SOLDERING GUN (75W)

MODEL 7200-W

OUR PRICE **$14.95**



DESCRIPTION

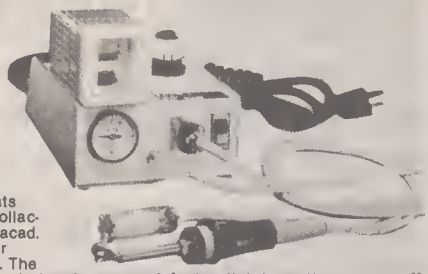
Economy model, smell, lightweight for fast soldering jobs. Fingertip trigger for instant heat. The gun has been designed so it cen be placed on its back when not in use. Aveileble with soldering tip (7235) only. 2 wire cord. UL-listed. Boxed in polystyrene trey.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

WELLER TEMPERATURE-CONTROLLED DE-SOLDERING STATION

MODEL DS-500

OUR PRICE **$449.95**



FEATURES

- Da-soldering tiplats availabla.
- Stainlasa staal linars brazed to tiplats for battar haat transfer end longar lifa.

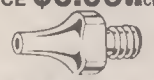
DESCRIPTION

Stainlass Staal linad da-soldaring tiplats draw moltan aoldar into saa-through collacting tuba that la aeally cleanad or raplacad. Vacuum is craated by convarsion of air prassure through a spacial tranaducer. The stetion is dasignad to usa air from an axtarior air system. A foot switch turns the vacuum off end on. Vacuum leval la adjuatad by an air preeaura regulator. Cebinat-mounted gauge ahows vacuum laval. Easy maintanenca is a primary faatura of tha DS-500.

WELLER REPLACEMENT TIPS

FOR MODELS DS-100, 500, 600

OUR PRICE **$6.95** each 10 FOR **$65.00**

DS-110  DS-115

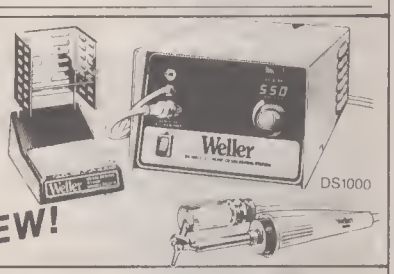
Replacement and Extra De-Soldering Tiplets For Models DS-110, DS-500, DS-600

Model No	O.D.	I.D.	Length	Packed
DS-110	.060"	.025"	.50"	5/card
DS-111	.090"	.025"	.50"	5/card
DS-112	.078"	.036"	.50"	5/card
DS-113	.098"	.045"	.50"	5/card
DS-114	.125"	.071"	.50"	5/card
DS-115	.060"	.025"	.75"	5/card
DS-116	.098"	.045"	.75"	5/card
DS-117	.090"	.025"	.75"	5/card

WELLER DESOLDERING STATION

MODEL DS-1000

OUR PRICE **$795.00**



Advancad technology at your fingertips

FEATURES

- 3 Digit LED raadout.
- Pracision plantinum sansors.
- Tool intarchangaability.
- Zaro crossing usad throughout tha unit.
- Air flow elactronic control with light indicator.

NEW!

WELLER XCELITE MARKSMAN SOLDERING IRONS

MODEL SP-23

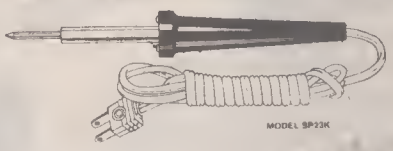
OUR PRICE **$7.95**

25 watts

MODEL SP-40

OUR PRICE **$10.95**

40 watts



WELLER SOLDERING IRON KIT

MODEL SP-23K

OUR PRICE **$11.95**

DESCRIPTION

Includas Wellar® SP23 iron, thrae differant pra-tinned 1/8" diemeter tips of pletad coppar. 40/60 rosin cora aoldar. Helpful hints and instructions on back of card. Cardad. UL listad. Card siza: 8" x 11" x 1-1/4". Packad 12 cards par mastar carton waighing 8 lbs. end maesuring 8" x 7-1/4" x 11-1/8".

WELLER COPPER SOLDERING TIP

MODEL 7135

OUR PRICE **$1.65** per card

10 CARDS **$15.00**

Most popular tip. 2 per display card.
For Models WS-100, WD-135, S-400, D-440, 8100, 8200, 8100B.

WELLER SPECIALIZED SOLDERING KIT

Soldering Hobby Kit

MODEL 230-K

REG. $19.95 OUR PRICE **$17.95**

DESCRIPTION

12-pieca kit for aoldaring, laathar tooling, wood burning, plastic sculpturing, modal-making, atc. Includes SP23 iron; hot knifa tip, smoothing tip, and four othar tips; sponga; hot-iron rast; aoldaring eld tool; rosin-core aoldar; instruction bookiet; and plaetic carrying casa. UL listad. Pecked individuelly, 8/carton.

WELLER COPPER SOLDERING TIP WITH TIP NUTS

MODEL 7135N

OUR PRICE **$1.65** per card

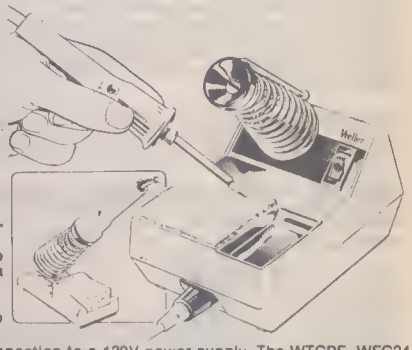
10 CARDS **$15.00**

Ona per displey cerd.

WELLER PROFESSONAL SOLDERING TOOLS

MODEL WTCP-E

OUR PRICE **$109.95**



DESCRIPTION

Wallar improved professional soldering toole. WTCP-E soldering station hes powar unit and WEC24 iron with temparatura control built into its handla. WEC 120-3 iron designad for usa by diract connection to 120V power eupply for use with PHWEC banch atend.

Wallar introducas tha WEC serias of alactronic aoldaring tools. Fully proportional alactronic tamparatura control circuitry gives pracisenaa and excellent raaponse. Although factory cellbratad to 700°F., thasa toola ara adjustabla ovar a ranga of 400°F to 800°F. Tha WTCPE is a complata soldaring station, but tha WEC24 iron cen be bought saperately to be usad with axisting 24V powar units.

The WEC120-3 is dasignad for diract connection to a 120V powar aupply. The WTCPE, WEC24 and PHWEC stand all includa our naw long-lasting ceramic funnal. Any job cen be hendled with tha full lina of Wallar ET sarlaa tips for usa with tha WEC24, or WET sarlas tips for uaa with tha WEC120-3.

Models	Description	Our Price
WTCPE	Complata unit with TC202 power unit and WEC24 soldering iron.	$109.95
WEC-24	Soldaring iron only.	59.95
WEC 120-3	Soldaring iron for 120 volt use.	60.00
PHWEC	Banch stand for WEC 120-3.	12.95

Model	Description	WET Series Tips
WETA	1/18" tip screwdrivar	
WETB	3/32" tip scrawdrivar	
WETC	1/8" tip ecrawdriver	
WETD	3/16" tip acrawdrivar	
WETH	1/32" tip conical	
WETP	1/32" tip long acrewdrivar	
WETK	3/84" tip long scrawdrivar	
WETL	5/84" tip long scrawdriver	
WETS	1/84" tip long conical	

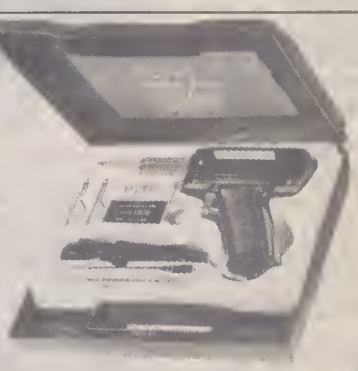
OUR PRICE **$3.50** each 10 FOR **$30.00**

WELLER ALL-PURPOSE SOLDERING GUN KIT

100/140 watts

MODEL 8200PK kit

OUR PRICE **$19.95**



DESCRIPTION

8-placa kit includas Wallar® Modal 8200 dual haat aoldaring gun. Thraa coppar soldaring tips, tips changing wranch, flux brush, soldaring aid tool, coil of 80/40 rosin cora aolder — all contained in e eturdy, plastic carrying casa. Also included is a comprahansiva, illuatratad "Soldaring Tips" manual of practical aoldaring procaduras.

WELLER SPECIALIZED SOLDERING KIT

Electronic Tool Kit

MODEL 250-K

OUR PRICE **$47.50**

DESCRIPTION

12 placas. For the kit-buildar, hobbylat, budding tachnicien, hendyman, or genaral uee in dozans of alactronic joba. Contains Wallar WP25 Soldaring iron with 1/18" acrawdrivar tip, 1/32" conical and 3/32" acrawdrivar axtra tips, aoldaring aid tool, and rosin-core soldar, plus Xcelita 1/4" nutdriver, 1/8" slotted-screw drivar, No. 1 Phillips-type drivar, 4" short chain-nosa pilars, 4" diagonal cutting pilars, wira etripper/cuttar, and plestic cerrying case. UL listad. Pecked individuelly, 8/certon.

SOLDERING TOOLS

WAHL ISO-TIP® "60" CORDLESS SOLDERING IRON

MODEL 7800

OUR PRICE **$44.95**

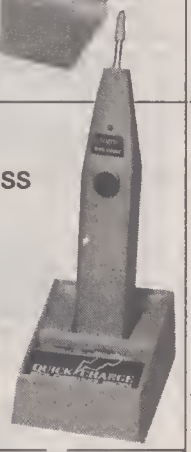
DESCRIPTION

Fastest recharging cordless soldering iron on the market. Solders up to 125 electronic joints* per charge. Rechargea fully in one hour — or enough for reuse in a few minutas. Allows "20% continuous use" when kept in charger between usea. Iron awitches automatically to energy-aaving trickle-charging rate when battery becomes full. LED indicator ahows when battery is charged. Cannot overcharge. Kit contains cordless soldering iron, recharging stend. #7577 tip, #7545 tip and instructions.

WAHL "QUICK CHARGE" ISO-TIP® CORDLESS SOLDERING IRON

MODEL 7700

OUR PRICE **$34.95**



DESCRIPTION

Recherges completely in 3 to 4-1/2 hours. A partially discharged battery returns to full capacity in an hour or two. Long lasting, premium quality nickel cadmium bettery withstands high-rate charging without damage. Fully charged unit can make up to 125 electronic joints* per charge. Cannot overcharge. Kit contains cordless soldering iron, recharging atand. #7545 tip, #7546 tip and instructions.

WAHL THE ORIGINAL ISO-TIP® CORDLESS SOLDERING IRON

MODEL 7500

OUR PRICE **$29.95**

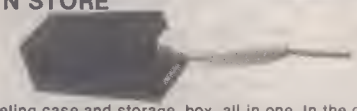
DESCRIPTION

Introduced as the greateat advance in soldering since electricity. Capacity equala the newer units, with up to 125 electronic joints* per charge. Rechargea in 12-16 hours from complete discharge. Economically priced, it makes cordless aoldering convenience attrective to all types of users. Cannot overcharge. Kit contains cordless soldering iron, recharging stand. #7545 tip and instructions.

WAHL ISO-TIP® FOLD 'N STORE

MODEL 7290

OUR PRICE **$13.95**



DESCRIPTION

Designed to serve as bench stand, traveling case and storage, box, all in one. In the open position, the stand provides a convenient holder for a hot iron — with a tip-cleaning sponge in an internal well. Closed, the stand locks the iron in place for neat, easy storage or travel while the iron is still hot. Metal case is a compact 1-3/4" x 2" x 4-3/4" to fit tool box or caddy. #7290.

WAHL ISOTIP HIGH SPEED ELECTRONIC TECHNICIAN DRILL

MODEL 6275

OUR PRICE **$39.95**

DESCRIPTION

Operating at approximately 16,000 RPM, the drill is ideal for prototype development; revising/redesigning circuit boards; removing solder from printed circuits and printed boards; and cleaning lead holes. With an overall length of less than 6 inches (minus drill bit), the drill can be used in confined areas, eliminating the need to remove circuit boards, chassis etc., from cabinetry when making a repair.

Drill includes 3-jaw chuck and 110V transformer packed in convenient plastic storage bag.

ALSO AVAILABLE

Model 6550 Drill Bit #56 ..... Our Price $1.75

WAHL INDUSTRIAL 30 SOLDERING IRON

MODEL 7250

OUR PRICE **$19.95**

DESCRIPTION

A 27-watt, constant temperature (690°F). Iron built for the industrial environment. Lightweight, cool and comfortable to use. Features include: circuit diode and heavy-gauge heating element wire for extended life; 3-wire grounded burn-resistant cord; stainless steel shaft and aluminum spacer to prevent tip seizure; clip-on hanger; and light to indicate the iron is plugged in. Will accept any tip shown on the next page. Shaft end is threaded for easy tip installation, without tools. 1/6" tip (#7235) furnished.

WAHL TIPS FOR CORDLESS IRON

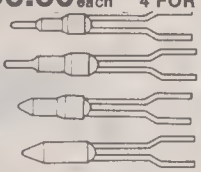
OUR PRICE **$3.50** each 4 FOR **$12.00**

MODEL 7566 — Micro Soldering Tip 1/64" (.4mm).

MODEL 7545 — Fine Tip 1/16" (1.6mm).

MODEL 7535 — Regular Tip 5/32" (4mm).

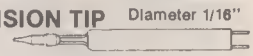
MODEL 7546 — Heavy Duty Tip high wattage 3/16" (4.6mm).



WAHL SPECIALTY TIP TUNER EXTENSION TIP

Diameter 1/16"

MODEL 7556 OUR PRICE **$5.95**



WAHL CIRCUIT BREAKER TIP

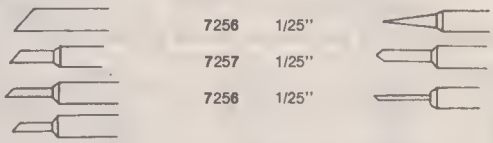
MODEL 7541 OUR PRICE **$3.95**

WAHL TIPS FOR MICRO SOLDERING STATIONS-MODELS 7230 and 7470

OUR PRICE **$2.95** each 10 FOR **$25.00**

Copper Alloy Nickel Plated

MODEL	DIAMETER	MODEL	DIAMETER
7252	5/32"	7256	1/25"
7253	3/32"	7257	1/25"
7254	1/16"	7256	1/25"
7255	1/16"		



WAHL ORYX MODEL PSU-6V 6-WATT SOLDERING STATION

MODEL 7230

OUR PRICE **$39.95**

DESCRIPTION

A low-wattage station complete with light-weight soldering iron, transformer and accessories for precision work on delicate, miniaturized and other heat-sensitive components. Applicable wherever pin-point soldering accuracy is needed. Includes 6" long, 1/4 oz. Oryx soldering iron with 3/32" B type tip — plus double-insulated transformer with internal safety fuse and indicator lamp, tip cleaning sponge, sponge well and iron holder spring. Optional tip types available.

WAHL MICRO SOLDERING STATION

MODEL 7470

OUR PRICE **$59.95**

- Temperature adjustable micro soldering station.
- Set and maintain any temperature from 500° to 700°F.

The micro soldering station for soldering today's micro circuits. A production line tool for fine manufacturing with a wide range of tip materials and styles available as stock items.

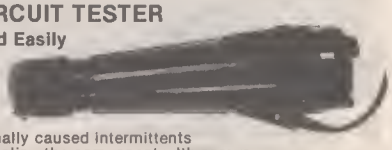
Soldering station comes complete with sponge holder, tip-wiping sponge, soldering iron and stand. The compact station takes less than 12 sq. inches of bench space. Equipped with a 3-wire grounded power supply cord, the transformer base weighs just 1 lb., 2 oz. The micro soldering station can be adjusted for virtually any temperature from 500° to 700°F. Pulling the temperature selector knob out turns the unit on and a red safety LED shows when the unit is plugged in and turned on.

WAHL THERMAL-SPOT CIRCUIT TESTER

Finds Faulty Components Quickly and Easily

MODEL 5800

OUR PRICE **$49.95**



DESCRIPTION

The tester approaches the problem of thermally caused intermittents logically—no heating and then artifically cooling the component with sprays. The tester directs heat to the suspected capacitor or transistor, one component at a time and heats them as in normal operation.

WAHL ISO-TIP® PC DRILL

Attachment To Convert Your Iron To a Portable Drill

MODEL 6500

OUR PRICE **$15.95**

DESCRIPTION

Interchanges with Wahl snap-in tips, providing a .046 (No. 56) drill with 10,000-12,000 operating rpm. Ideal for cleaning solder from circuit boards when replacing components or providing new holes for PC board repair. Often eliminates need to remove board to make a repair.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

PALADIN SOLDER SCOOTER
MODEL PA-1707

OUR PRICE **$26.95**

DESCRIPTON

Paladin's new Solder Scooter Model PA-1707 is the lowest cost electric desoldering tool in the world.

The one tool that replaces two...it heats and desolders.

The Solder Scooter makes desoldering single or two sided PC boards a snap. Its compact design and unique features makes it an ideal tool for field repair, and re-work jobs. The ceramic substrate heater quickly melts the solder joint, this and the integral vacuum pump pulls solder from the board quickly, quietly and thoroughly.

PALADIN ELECTRIC DESOLDERING TOOL
MODEL PA-1710

OUR PRICE **$325.00**

DESCRIPTION

The PA-1710 is all a Production Maneger end an Operator could ask for! It's light. Easy and comfortable to work with. It's fast, ultra-efficient, compact, and engineered for a long, productive life. And it has a range of features that are unique. For opener's, the PA-1710 doesn't need an external vacuum pump or collector...a powerful, solenoid activeted pump is built in! But there's more...

The angle of the desoldering tip adds to operator efficiency. The tip is always clearly visible. And that tip moves from point-to-point effortlessly because the PA-1710 is balanced to fit the hand perfectly.

"Electric" means no awkward vacuum hoses, no external air sources. Electric desoldering is fast, clean, simple. One squeeze of the trigger and the job is done...without irritating noise or recoil.

The built-in collector cleans in seconds. Just pull the plug, shake out the solder, and replace the cotton filter. That's all there is to it! Stainless steel conduits eliminates clogging and insure trouble-free collection.

One trigger squeeze is all it takes. The trigger activates a solenoid that operates a powerful, quiet, vacuum collector. Solder is removed and collected faster, cleaner than ever.

PALADIN SOLDER CLEANER
MODEL PA-1715

OUR PRICE **$89.95**

SPECIAL!

DESCRIPTION

A high-tech desoldering tool at a low-tech price. Paladin's new PA-1715 has the breakthroughs you need to increase productivity and improve efficiency ... at an amazingly low price!

A unique process that ends with a better tip. The core is pure copper dipped in iron repeatedly for strength. Then it's Chromed to insure it'll outlast conventional tips. When the time comes, the tip is easily replaced.

An advanced Ceramic substrate heating element. It heats quickly, maintains a consistent tip temperature with just 35 watts. Recovery time is nil. Thanks to advanced technology, heating element life is incredibly long.

A collector cartridge that doesn't inhibit vacuum power. The large Lexan® collector is transparent ... you can see when it's full; when the filter needs replacing. A unique spring loaded impact plate prevents solder from reaching the pump or internal parts. The collector empties quickly.

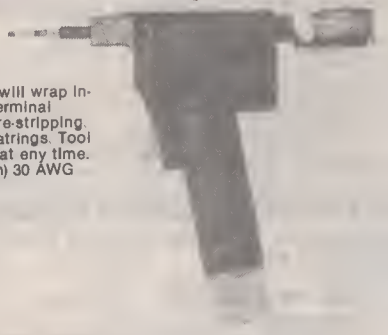
A straight solder path from tip to collector. There are no angles or bends to trap solder. Clogging is virtually eliminated.

An integral, short stroke vacuum pump that needs no external power. The pump is housed in the handle. A single trigger squeeze creates a powerful vacuum that pulls solder into the collector effortlessly. The pump is engineered for a long, maintenance-free life.

BREAKTHROUGH. Powerful performance from a light-weight tool. The PA-1715 weighs just 14 ounces. It's designed to fit an operator's hand comfortably. It's fully self-contained so external air lines or power hoses are eliminated. The PA-1715 operates from any standard AC outlet.

OK TOOLS THE BATTERY JUST WRAP TOOL
MODEL BJW-3

OUR PRICE **$62.95**



DESCRIPTION

This revolutionary new battery powered tool will wrap insulated wire around .025" (0.63mm) square terminal posts without the need for pre-cutting and pre-stripping. Allows daisy chain, one-level wire-wrapping strings. Tool has built-in cut-off mechanism to end string at any time. Supplied complete with bit and 100 ft. (30.4m) 30 AWG (0.25mm) wire.

FEATURES

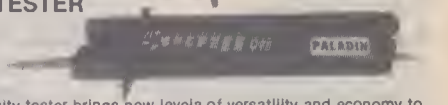
- Fast and simple operation.
- Daisy chain or point-to-point wiring.
- Complete with bit and sleeve.
- Automatic feed mechanism.
- Cuts off wire at end of string.
- Convenient wire refill spools.

REPLACEMENT WIRE ROLLS

R-JWB-100 100 ft. (30.4m) Blue. R-JW-W-100 100 ft. (30.4m) White. R-JW-Y-100 100 ft. (30.4m) Yellow. R-JW-R-100 100 ft. (30.4m) Red. **$6.95 per roll.**

PALADIN VERSA TEST AUDIBLE CONTINUITY/VOLTAGE TESTER
MODEL PA-1755

OUR PRICE **$34.95**



DESCRIPTION

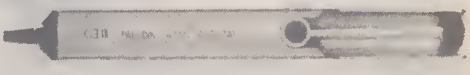
Paladin's audible voltage and continuity tester brings new levels of versatility and economy to the user. Measure voltage AC or DC, in nominal steps up to 440 volts. Test circuit continuity up to 20 M ohms. Check polarity and phase differences in semiconductors and diodes. Each test is ascertained with an audible tone from the tool. High impedence, low resistance operation makes it safe to use on most CMOS devices. 38" probe-to-probe length makes it easy to use the Versa Test for many sizes of testing applications, large panels or small P.C. boards.

TECHNICAL DATA

- Input Resistance: 10 M ohm. • Test Voltage Range: 6-440V AC or DC.
- Max. Voltage Limit: 700V. • Test Current Against Ground: 220V RMS .022 mA.
- Frequency Range: 40-100 Hz. • Continuity Test Up To: 20 M ohm.

PALADIN DESOLDERING TOOL
MODEL PA-1704

OUR PRICE **$19.95**

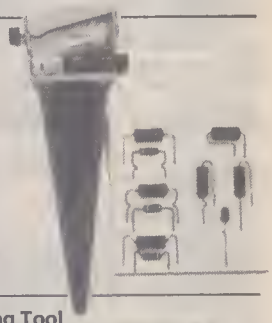


DESCRIPTION

To us, "anti-static" means no static discharge. None at all. And so the PA-1704 is 100% conductive ... from top to tip! Once the PA-1704 is touched by a grounded operator, built-up static is completely discharged.

OK TOOLS COMPONENT LEAD BENDER
MODEL LB-100

OUR PRICE **$16.95**

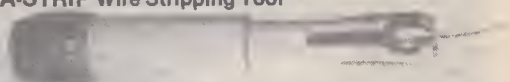


DESCRIPTION

The new LB-100 component lead bender is totally unique in that it also contains a remarkable and handy lead crimper. The LB-100 handles all common axial components including resistors, diodes and capacitors, and can be used on many radial and 'TO' packages as well. The lead bending section enables simple right-angle layover of leads of any centers from 0.375 to 1.500" (9.5-38.1mm) while an additional feature enables 'vertical' bends.

OK TOOLS DIAL-A-STRIP Wire Stripping Tool
MODEL ST-400

OUR PRICE **$17.95**



DESCRIPTION

The ST-400 is a totally unique micrometer-adjustable wire stripping tool which can accommodate both solid and stranded wire from 18 AWG through 30 AWG (1.0-0.25mm). Simply turn the micrometer knob until the desired wire size is shown on the dial window. This automatically adjusts the stripping blades for a precise end nick-free strip. Slip the wire between the blades, using the handy molded-in scale to set the strip-off length. Then simply rotate the tool once or twice and pull to remove the insulation. Compatible with all common types of insulation including PVC, Kyner and Teflon. Hardened steel blades for long life. Extremely compact and lightweight for comfort and portability. Ideal for field service, laboratory, light production or personal use.

OK TOOLS DIP IC INSERTION TOOLS With PIN Straightener

STRAIGHTEN PINS — INSERT — PICK-UP

14-16 PIN DIP/IC INSERTER
MODEL INS-1416 OUR PRICE **$5.95**

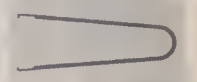
DESCRIPTION

Narrow profile permits tool to work on densely spaced patterns, while unique insertion mechanism assures accuracy as well as excellent 'feel'. Finally, the tool includes a remarkable pin straightener built into the handle. Simply insert the IC, rock it on the straightening saddle, and push down on the tool. An automatic ejector delivers the IC ready to be placed in the insertion end for installation in your board or socket.

14-16 PIN, MOS CMOS SAFE INSERTER—MOS-1416	$11.45
24-28 PIN, MOS CMOS SAFE INSERTER—MOS-2428	11.45
36-40 PIN, MOS CMOS SAFE INSERTER—MOS-40	12.95

OK TOOLS DIP IC EXTRACTOR TOOL
MODEL EX-1

OUR PRICE **$3.95**



DESCRIPTION

Extracts all LSI, MSI and SSI devices from 8 to 24 pins.

OK TOOLS 24-40 CMOS-SAFE EXTRACTOR TOOL
MODEL EX-2 OUR PRICE **$13.95**

DESCRIPTION

Removes 24-40 pin IC's, .600" centers. CMOS safe. Includes terminal lug for attachment of ground strap.

SOLDERING ACCESSORIES

BP PENCIL SOLDERING IRON
MODEL FS-30

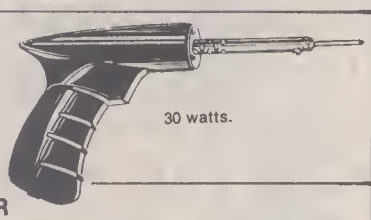
OUR PRICE $2.50 each 10 FOR $22.50

DESCRIPTION
Lightweight 30-watt general purpose iron is designed for industrial and hobbyist use. Ideal for printed circuit work and kit-building. 250° tip temperature.
• Display package.

BP PISTOL GRIP SOLDERING IRON
MODEL FS-32

OUR PRICE $3.99

10 FOR $30.00



30 watts.

BP DISPENSER PACK SOLDER
MODEL DS-1

OUR PRICE 79¢ each

5 FOR $3.50

DESCRIPTION
60/40 rosin core type. Diameter: 0.050". The best for all electronic soldering.

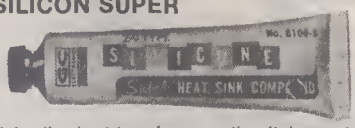
BP ROSIN CORE SOLDER

Model	Alloy	Wt.	Dia.	Our Price
31	80/40	1 lb.	.031	$12.50

Flux Properties
The 'Instant action' behavior of BP Rosin is a most outstanding property and even more important and more significant is the fact that the flux is completely non-corrosive and electrically non-conductive. Throughout its long years of wide-usage in the electric and electronic industry, involving countless billions of soldered connections, there has never been a known case of corrosion by the flux residue.

GC ELECTRONICS SILICON SUPER HEAT SINK COMPOUND
MODEL 8109-S

OUR PRICE $3.95



DESCRIPTION
Zinc oxide filled silicone grease with outstanding heat transfer properties. It does not soften under elevated temperature and will not dry out or harden. Provides a heat sink when mounting transistors to chassis and metallic heat sinks. For use in the production of transistorized equipment as well as in the service industry whenever a semi-conductor requires replacement. Temperature ranges —85°F to +400°F. Will not dry out or harden—Z-9 type. 8109-S 1 ounce tube (carded).

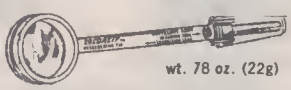
GC ELECTRONICS FINE LINE BURNISHING TOOL
MODEL 9337 OUR PRICE $1.50

MODEL 9338 OUR PRICE $1.50

DESCRIPTION
An ideal device for cleaning oxide as well as corrosion from contacts in compact relays, switches, and other miniature components. The No. 9337 burnishing tool is extremely useful. Thin, only .120" wide, this tool affords easy access.

EDSYN BURNISHING TOOL
MODEL BT-028

OUR PRICE $6.95



wt. 78 oz. (22g)

DESCRIPTION
A combination tool with a fine abrasive blade at one one end, a high-quality magnifying lens at other end.

EDSYN TWIP SOLDER AND WICK DISPENSER
MODEL TW-308 OUR PRICE $15.95

DESCRIPTION
Convenient dispensing of soldering supplies with minimum waste. Positive action thumbwheel feeder ejects solder at one end; manual pull dispenses wick at other end. Reduces tangles, keeps solder and wick clean. Viewing window allows quick check of contents. Durable corrosion resistant plastic construction. Comes complete with 1 roll .031 resin core solder (approx. 25 ft) and 1 roll size 3 .080 wide resoldering wick (5 ft). Solder alloy: 63/37Sn per Fed. Spec. QQ-S-571 type Wrap. Solder Spool P/N SSS94 (approx 25 ft). Resoldering wick P/N SW091 (5 ft).

EDSYN SOLDAPULLT Deluxe Desoldering Tool
MODEL DS-017

OUR PRICE $18.95

DESCRIPTION
Extremely rugged for volume desoldering. Heavy duty plastic barrel and trigger housing for long, dependable operation. Simple twist-lock separation for fast cleaning. Oversize plunger fully enclosed for safety. Heavy mainspring creates high vacuum pulse. Dynamic damping reduces kickback.

EDSYN SOLDAPULLT Universal Desoldering Tool
MODEL US-140

OUR PRICE $9.95

DESCRIPTION
Compact tool for convenient tool box storage. Precision molded plastic barrel and low mass plunger creates rapid vacuum impulse with negligible coil. Three position plunger adjusts loading span to fit large or small hands. Ample vacuum for most circuit board desoldering requirements.

EDSYN SOLDAPULLT Low Static Potential Desoldering Tool
MODEL AS-196

OUR PRICE $22.95

DESCRIPTION
Designed for low static work stations to protect components from effects of static electricity. Low static electrical characteristics providing ground path via operator, reducing discharge to susceptible components. Special material protects operator from a direct electrical short or shock.

EDSYN SOLDAPULLT III Portable Desoldering Tool
MODEL PT-109

OUR PRICE $14.95

DESCRIPTION
Sturdy tool for routine desoldering. Slim profile without sacrifice in performance has Deluxe Model features; fully enclosed plunger shaft; dynamic damping for very low recoil. Preferred by many technicians. Quickly desolders average size components and wiring.

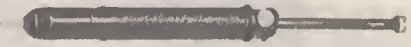
EDSYN STANDARD SOLDAVAC
MODEL SV-026

OUR PRICE $10.95

DESCRIPTION
The standard Soldavac is the hobbyist and handyman's tool, featuring one hand loading, swift vacuum, and low recoil action.

EDSYN MICRO TIPPED SOLDAPULLT III
MODEL PT-209

OUR PRICE $17.95



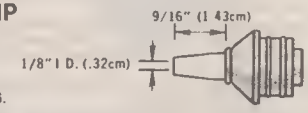
DESCRIPTION
The Micro tipped version is identical in size and performance to the smooth acting PT109 Soldapullt III, however, the smaller 3/32" I.D. tip orifice (vs 1/8" I.D. standard) is better suited for high density circuit boards. The smaller tip orifice provides higher vacuum velocity which helps pull solder from difficult to reach circuit pads. The more slender profile of the tip is ideal for close-in work of TO-92 size transistors, DIP and round pattern IC's, multipin connectors, etc. Replacement tip: MRT-18. Replacement 'O' ring: OSB32.

EDSYN MICRO TIPPED UNIVERSAL SOLDAPULLT
MODEL US-240 OUR PRICE $14.95

DESCRIPTION
Has all the same features as the US-140 Universal Soldapullt except equipped with a smaller 3/32" I.D. tip for micro desoldering of round pattern and DIP IC's, TO-92 transistors, miniature connectors, and high density PCB's with .082 Dia. and smaller pads. The micro tip allows higher vacuum velocity for better solder removal where it is difficult to get close to the connection. Replacement tip: MRT-16. Replacement 'O' ring: OS143.

EDSYN REPLACEMENT TIP
MODEL SRT-12

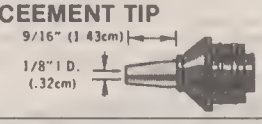
OUR PRICE $2.95



Fits DS-017, DS-101, PT-109, US-140, SV-026.

EDSYN LOW STATIC REPLACEEMENT TIP
MODEL LS-197

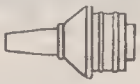
OUR PRICE $4.95



Also fits AS-196.

EDSYN LONG LIFE HARD TIP
Fits Models DS-017, PT-109, US-140
MODEL SCT-99

OUR PRICE $4.95



DESCRIPTION
Tip made from ceramic material for very long life. Please note several considerations: Hard ceramic can possibly damage delicate parts if bumped severly. Also solder is not released as readily as with Teflon tips. Color code end cap is white.

EDSYN MICRO REPLACEMENT TIP
Fits Micro Tipped Models PT-209, US-240
MODEL MRT-16

OUR PRICE $3.95

DESCRIPTION
Same durable no-stick Teflon tip as SRT-12 replacement tip, however, with smaller 3/32" I.D. tip orifice for desoldering up to .075 Dia. pads, TO-92 case transistors, multipin connectors, etc. Color code end cap is gray.

SOLDER CREAMS
MODEL BCR-10

OUR PRICE $3.95

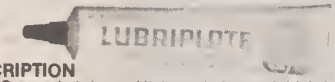
DESCRIPTION
A homogenous mixtura of pra-alloyad soldar powder (60/40-tin/lead) and proper rosin flux percentage forming a creem (peste). Creem is tacky end cen be used es e tamporery edhesive to hold perts in pleca until solder is maitad. The flux residue is non-corrosiva and naad not be removad after soldaring. It can ba usad for printed circuits; radio and TV repeirs, kit wiring, circuit repeirs, fiet pecks; microcircuite, end ell typas of electricel wiring and circuits.

MULTI-CORE FLUX PASTE
MODEL RF-10 Erain®

OUR PRICE $3.50

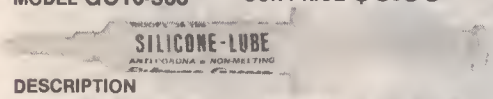
DESCRIPTION
For use with ganaral purposa soild wire solder. Selact the type flux depending on your application. Erein® Rosin for electronic/electricel end Arex® Acid for genaral matal joining. Flux is in peste form end cen be eesily eppiled to area to ba eoidered. It is feet ecting end the non-corrosive residue need not ba ramoved eftar eoldering. Usad for ell types of electricel wiring end circuits; printed circuits; radio and TV repeirs; end kit wiring.

ELECTRONICS LUBRIPLATE
MODEL GC10-2302 OUR PRICE $3.95



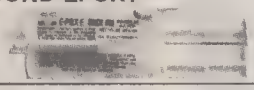
DESCRIPTION
White Greese Lubricent. High-grede industrial lubricent in e tube for motors, geers and beerings of ell kinds. 1-3/4 oz. tube.

GC ELECTRONICS SILICONE-LUBE HIGH VOLTAGE JELLY
MODEL GC10-568 OUR PRICE $3.95



DESCRIPTION
In e disposeble dispenser. An excellent haat transfar betwaan powar transistor and haat sync. Prevents flybeck and picture tuba ercing up to end beyond 60,000 volts. Never dries out. Will not creck, chip, peel, run, melt, fraaza, braak, hardan, burn or lose effectivenese. Unconditionally guarantead. Stops Corona Laekaga.

GC ELECTRONICS 5 MINUTE DUAL BOND EPOXY
MODEL GC-5



OUR PRICE $4.95

BP PLASTIC ELECTRICAL TAPE
MODEL TE-101

OUR PRICE $79¢ each
10 FOR $7.50

DESCRIPTION
Bleck plestic electrical tape offers thousands of uses. High dielectric end tensile strengths. Extre flaxible stretch, enug wrep, weterproof end raalstent to gesolina, oil, salt water, sunlight end eikelis. 3/4" wida, 66 feet iong. Cello wreppad with label. UL APPROVED.

ASSORTED SPAGHETTI KIT
MODEL 550

OUR PRICE $1.49 each 10 FOR 12.50

DESCRIPTION
An assortment of 9" to 12" lengths of spaghetti sleaving. 25 lengths to the kit. Sizes from 17 wire to 3/8" OD.

BP SOLDER WICK

For desoldering componant laads from e pc boerd or ramoving soldar from virtueily eny joint. Solder wick removes the solder by cepiliary ection. Simple to use. Pleca solder wick on defective connection, epply soldering iron to wick for e second. Ramove wick end eoldering iron simultanaously. 'Pull-out' wick supplied in a epecial covered reel.

Model	Application	Daacription	Our Price
AA (yallow)	Electronic: PC boerds; thin wiras	1/16" wide.	$1.75 10 for $12.00
AB (green)	Ganerel purpose	3/32" wide.	$1.75 10 for $12.00
BB (blua)	Electricel: larga wiras	1/8" wide.	$1.75 10 for $12.00

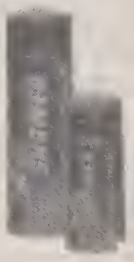
TECH SPRAY BLUE STUFF FOR TUNERS
MODEL 1639-8S
OUR PRICE 8 oz.
$3.95 each 12 FOR $36.00

DESCRIPTION
The finast tuner cara product availabla. It's unique formula makes it tha suparior long tarm protectiva meterial for tuner contacts. Contains millione of tiny MINISCRUBBERS® disparsed throughout it's thick lubricant.

BP TEFLON® TUBING ASSORTMENT
MODEL H3-461
OUR PRICE $2.50 per pkg.
10 PKGS. FOR $20.00

DESCRIPTION
Assortment of high quelity Teflon® tubing in a variety of dlemetars. Haat raalstent.

TECH SPRAY BLUE SHOWER
MODEL 1657-12S
OUR PRICE 12 oz. $3.95 each
12 FOR $42.00
MODEL 1657-24S
OUR PRICE 24 oz. $5.95 each
12 FOR $60.00

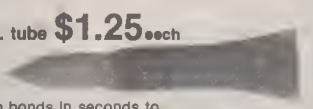


DESCRIPTION
A tough cleaner end dagraaser for tunar, flybeck and chessis es well es ell components and essembiles. Will complately rastore detuned tuners. Will cleen the worst dirt, yet is gentle to plestics.

TECH SPRAY MINUS 62 INSTANT CHILLER
MODEL 1669-15S
OUR PRICE 15 oz. $4.95 each
MODEL 1669-30S
OUR PRICE 30 oz. $5.95 each

DESCRIPTION
The best trouble-shooting aid for use in trecking down intermittants. Locetes crecks in printad circuit boards. May ba usad to separata or join tight-fitting metal parts.

TECH SPRAY INSTANT STICK
MODEL 1673
OUR PRICE 3 Gm. tube $1.25 each
5 FOR $6.00

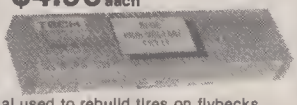


DESCRIPTION
Sats fast, makas firm bonds in seconds to minutes. Joins virtually any combinetion of matarleis. Ready to use — no mixing. Contact pressure sufficiant for bond. Cures et room tamperature.

TECH SPRAY IMPROVED SLIP STOP
Anti-Slip Compound
MODEL 1614-2
OUR PRICE 2 oz. $3.50 each

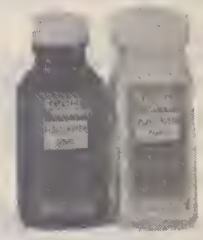
DESCRIPTION
New improvad formula anti-slip compound. Apply to phono drives, es well as diel cords, to prevent slipping. Also used for auto radio clutch facings. Will not gat gummy with age. Fast, aasy to usa and is economical.

TECH SPRAY BLUE HIGH VOLTAGE PUTTY
MODEL 1624-X
OUR PRICE 2 oz. $4.95 each



DESCRIPTION
A soft, pliabia matarial used to rebuild tires on flybecks transformers. Protects egeinst corone end ercs. Use on enode buttons, yokes and damper tube sockets. Contains silicona. Raady to usa — no mixing.

TECH SPRAY PLASTI-PATCH
MODEL 1626-X
OUR PRICE Set
$4.95 each



DESCRIPTION
A repair kit for plastics. Rebuilds broken cabinets, shafts and knobs, es well as scraw mounts. Raplaces missing sactions of cabinets.

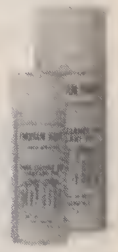
TECH SPRAY INSTANT STRIPPER
MODEL 1644-16S
OUR PRICE 16 oz. $4.95 each

DESCRIPTION
Ideal for usa in research labs, pilot production and short-run production. Safaly and efficiantly ramovas ell types of flux daposits from electronic circuitry. Excellent for use on computer and calculator printed circuit boards, microwava and telephona carriar circuitry. Not harmful to nylon, teflon or polyathylane.

FORDHAM RADIO COMPONENT COOLER
MODEL FR-16
OUR PRICE 16 oz. $4.50 each
12 FOR $48.00

DESCRIPTION
Pinpoints and locatas intarmittant rasistors, condansars end coils by lowaring their temperature under opereting conditions. Chills tha leads of transistors and phona cartridgas to reduce possibility of heet damage during soldaring. Non-flammable end eesy to use.

FORDHAM RADIO TUNER CLEANER
MODEL TC-6
OUR PRICE 8 oz. $2.25 each
12 FOR $24.00
MODEL TC-16
OUR PRICE 18 oz. $2.95 each
12 FOR $30.00



DESCRIPTION
Safely cleens end removes oxidation from all color TV tunars. Lubricetes end protacts tuners and thair componants. Safe for all plestic perts. Non-flammabla.

FORDHAM RADIO TUNER DEGREASER
MODEL TD-24
OUR PRICE 24 oz. $4.95 each
12 FOR $48.00

DESCRIPTION
Powerful jet sprey sefaly claens end degreeses aquipmant motors and switches. Tunar degraasar dries instantly, laaving it parfactly clean and dry. Safe for all plastics, will not detuna, end is non-flammeble. Laavas no dust-catching film when dry. Eesy to usa and aconomical.

TECH SPRAY INSTANT KLEEN-ALL
MODEL 1604-16S
OUR PRICE 16 oz. $4.95 each

DESCRIPTION
Claans all typas of electric aquipmant without disassamblу avan whlia in oparation. So safe you can put out a match with tha sprey. Non-conductive, cen't short or erc. Instently cleans ralay and switch contacts without denger. Designed for claening only, conteins no oily ed-ditivas that pravant thorough cleaning.

TECH SPRAY RID ARC
MODEL 1609-8S
OUR PRICE 8 oz. $4.95 each

DESCRIPTION
Renaws insulation. Dries rapidly to a tough red film thet is permanent. Stops ercing end corone discherge. Will not herden or dry up in can or bottla. Usa on color chassis. Use for protecting and insulating printed circuit boerds.

EDUCATIONAL KITS

PPG/KITS SIGNAL INJECTOR

MODEL 802 Parts Kit*

OUR PRICE **$4.95**

MODEL 702 Circuit Board

OUR PRICE **$3.50**

DESCRIPTION

The 802 Signel Injector is en important and fundementel piece of test equipment. Thus, it belongs on eny serious technicien's test bench. The circuit is besicelly en estable multivibrator or free-running oscillator, end as such it ie one of the more popular types of oscillators in uee todey. The signel injector puts out e 1,500Hz signel thet cen be used es en eid in the troubleshooting of eudio equipment such es redios, stereos, end tepe pleyers.

WHAT YOU WILL LEARN:

- R/C timing circuits.
- Trensistor switching circuite.
- Asteble multivibretors.

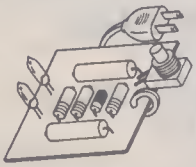
PPG/KITS DECISION MAKER

MODEL 808 Parts Kit*

OUR PRICE **$4.95**

MODEL 708 Circuit Board

OUR PRICE **$2.95**



DESCRIPTION

The 608 Decision Maker mekes for en interesting heeds-tells ,or yes-no game. When power is eppled to the circuit the neon bulbs will blink; thet is, they will elternetely flash on end off. When switch S1 is pressed (opened) only one of the bulbe will stay lit. Label one bulb yes, the other no end you're reedy to meke mejor decisions.

WHAT YOU WILL LEARN:

- Neon bulbs.
- R/C timing circuits.
- Relexetion oscilletors.
- Voltege drop.

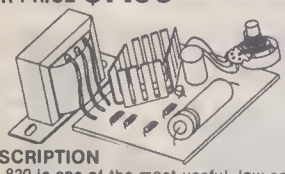
PPG/KITS 0-15 VOLT POWER SUPPLY

MODEL 830-PPG Parts Kit*

OUR PRICE **$18.95**

MODEL 730 Circuit Board

OUR PRICE **$7.95**



DESCRIPTION

The 830 is one of the most useful, low cost, transistor regulated power supplies an experimenter cen build. It will eupply volteges with the necessary current to run transistor redios, porteble tape recorders, electronic gemes, end e host of PPG projects. The 830 ie e very reliable verleble power supply that will give you meny yeers of good eervice. (300 ma mex. output)

WHAT YOU WILL LEARN:

- Rectifiction.
- Filtering.
- Trensformer ection.
- Voltage regulation.

* ALL PARTS KITS DO NOT CONTAIN A CIRCUIT BOARD.

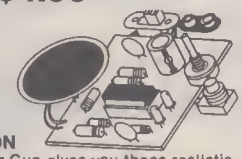
PPG/KITS SPACE WAR GUN

MODEL 803-P Parts Kit*

OUR PRICE **$9.95**

MODEL 703 Circuit Board

OUR PRICE **$4.95**



DESCRIPTION

The Space War Gun gives you those reelistic sight end sound effects you expect from such a "weepon" et e super low cost. The "gun" can be placed in a rapid-fire or stun (one-shot) mode. In either position two LEDs give a visual indication of impulse frequency while e 8-ohm speaker trensmits the eudio tone. In both modes a potentiometer ellows for quick end easy adjustment of output pitch, or firing rate.

In the rapid-fire mode switch S2 remains closed while the pressing of S1 generetes the "repid fire". In the "stun" condition, S2 is left open end the preseing of S1 produces the output tone.

WHAT YOU WILL LEARN;

- Clock circuitry.
- 555 and 556 timer circuits.
- R/C timing circuits.
- VCOs (voltage controlled oscillators).

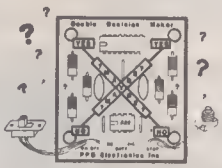
PPG/KITS DOUBLE DECISION MAKER

MODEL 811 Parts Kit*

OUR PRICE **$7.95**

MODEL 711 Circuit Board

OUR PRICE **$4.95**



DESCRIPTION

The 811 project is en advanced version of the familiar heads-tails game. However, your project is e decision meker with e "eecond opinion". When switch S1 is closed, four LEDs "blink" at two separate rates. Press switch S2 end two of the four LEDs remein on while the others turn off. The lit LEDs will indicete e "yes", "no" or "meybe". If it's e "meybe", you'll went to try again. It's e great converation piece end makes an excellent and unusual gift. Why not make two or three and give them out to friends end relatives on birthdeys or other eppropriete occasions? Thet should be a simple decision.

WHAT YOU WILL LEARN:

- Clock circuits.
- RS flip-flops.
- R/C timing circuits.
- JK flip-flops.
- D flip-flops.
- LEDs.

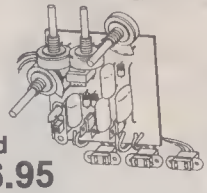
PPG/KITS 3-CHANNEL, 4-CONTROL COLOR ORGAN

MODEL 836 Parts Kit*

OUR PRICE **$14.95**

MODEL 736 Circuit Board

OUR PRICE **$6.95**



DESCRIPTION

The 3-Chennel Color Organ gives e dremetic effect by fleshing three strings of light (eech one e different color) to the sound of music. Eech string responds to its own frequency range; one for the low or bass, enother for the mid-renge, end e third for the high or treble frequencies. Any FM redio, stereo, phonogreph, or tape player can be used as a signal source; one just connects the output, (speeker leads) directly to the color organ. Up to 150 wetts of light per channel may be used. Thet is over 20 Christmas lights for each chennel, or 60 bulbs in eli. When enclosed behind e light diffueing piece of plastic, the display can be very impressive.

WHAT YOU WILL LEARN:

- SCRs (silicon controlled rectifiers).
- Audio transformers.
- Neon bulbs.
- Voltege dividers.
- Filter networks.

PPG/KITS LOGIC PROGE

MODEL 805-PPG Parts Kit*

OUR PRICE **$7.95**

MODEL 705 Circuit Board

OUR PRICE **$4.95**

DESCRIPTION

The PPG Logic Probe is a compect end reliable piece of test equipment to be used with ell digital logic femilies. It gives a clear indicetion of HIGH OR LOW condition, indicetes when e pulse is present et the point of test, end obteins power from the circuit under test. Furthermore, it is portable, eesy to use, end inexpensive. It's a must for any serious electronics hobbyist or technican. Opereting range - D/C to 100 Hz.

WHAT YOU WILL LEARN:

- 555 timer.
- TTL and CMOS ICs.
- Logic gates.
- LED indicators.

PPG/KITS SIREN OSCILLATOR

MODEL 812 Parts Kit*

OUR PRICE **$9.95**

MODEL 712 Circuit Board

OUR PRICE **$4.95**

DESCRIPTION

The 812 Siren/Code Oecilletor is reelly two projects in one. With switch S3 open, the device functions es an excellent code practice oscilletor. Pressing S2 produces e tone of unverying pitch. S2, in turn, could be replaced with e regular code key for serious prectice. The project is elso e siren. With S3 closed, pressing S2 results in e steedily rising tone from the 8-ohm speeker. When S2 is releesed, the tone descends in pitch. Thus you control the overall rising and falling pitch of the siren with the closing and opening of S2.

WHAT YOU WILL LEARN:

- Voltage dividers.
- R/C timing circuits.
- VCOs (voltage controlled oscilletors).
- Amplifiers.

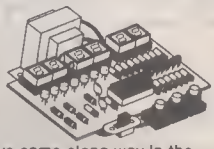
PPG/KITS 6-DIGIT DIGITAL CLOCK

MODEL 876 Parts Kit*

OUR PRICE **$49.95**

MODEL 776-PPG Circuit Board

OUR PRICE **$10.00**



DESCRIPTION

Digitel clocks have come elong way in the past few years. The first ones hed dozene of transistors, two or three ICe end were very expensive. Todey, thinge ere e bit different. The PPG Six Digit Digitel Clock uees the populer and reedily eveileble 5314 chip. Within this lerge-scele IC is the equivalent of over 450 transistors. It is a true wonder of modern solid-state technology.

The 878 hes meny speciel feetures such as: 50Hz or 60Hz timebase operation, 12 or 24 hour mode, slow/fast/hold buttons for eesy setting, seconds displey, color LEDs to separate hours end minutes, end finelly bright seven-segment LED displeys. This is e clock you will be proud to build end own.

WHAT YOU WILL LEARN:

- Switching transistors.
- Power trensformers.
- Rectification.
- 7-segment displays.
- LSI (large scale integration) ICs.

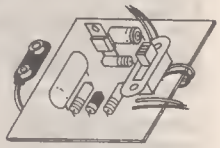
PPG/KITS BURGLAR ALARM

MODEL 806 Parts Kit*

OUR PRICE **$6.95**

MODEL 706 Circuit Board

OUR PRICE **$2.95**



DESCRIPTION

The 806 Duel Burglar Alerm is designed to be used with normelly open (S3) end normelly closed (S2) switches. If, efter the elerm is eet, (closing S1) the normally cloeed switch is opened or the normelly open switch is closed, the alerm device will sound. It will remain on even if switches S2 end S3 ere reset. The only wey to turn off the elerm is to open S1. S1 could be e key switch if you prefer. Meny types of connections could be used for the N/O end N/C switches. Thumb tecks reed switches, megnetic switchee, or security foil are just e few euggeetions. And by plecing N/C switches in series and N/O switchee in perellel, en elmost infinite number of erees can be protected. Comes complete with e lerge 9-volt buzzer.

WHAT YOU WILL LEARN:

- SCR (silicon controlled rectifier).
- Diode operetion.
- Alerm devices.

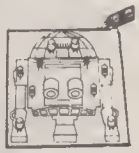
PPG/KITS ROBOT BLINKER

MODEL 814 Parts Kit*

OUR PRICE **$4.95**

MODEL 714 Circuit Board

OUR PRICE **$4.95**



DESCRIPTION

The LED Robot Blinker elternetely flashes e pair of LEDs et e rate of about two "blinks" per second. Even though the project is a toy, there is e greet deal of electronic knowledge to be gained by understending how it worke. The circuit is besicelly en esteble multivibrator or free-running oscillator, end es such it is one of the more popular types of oscilletors in use todey. You'll heve fun building, dieplaying, end leerning ebout the LED Robot Blinker.

WHAT YOU WILL LEARN:

- Free-running oscilletors.
- R/C timing circuits.
- Switching trensistors.
- LEDs.

PPG/KITS DIGITAL BIRD

MODEL 878 Parts Kit*

OUR PRICE **$10.95**

MODEL 778 Circuit Board

OUR PRICE **$4.95**

DESCRIPTION

There ere all kinds of birds in this world, singing ell kinds of songs. But neither you nor they heve probebly heard enything quite like this. The 878 Digital Bird produces sounds from e "tweeting" cenery to e silly chicken, ell with the turn of a few pots. It's fun unusuel end enterteining. Moreover, the 878 is e good introduction to sound synthesis; end e knowledge of thet could lead you in meny exciting directions.

WHAT YOU WILL LEARN:

- Oscilletors.
- Logic circuits.
- Trensistor empilfiers.
- Voltage dividers.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BP 4 AMP REGULATED DC POWER SUPPLY

MODEL SU-4A

OUR PRICE $19.95

SPECIFICATIONS

Binding Post Terminals
- Input: 115V AC 60 Hz.
- Output: 13.8V DC - 3 AMP constant -5 AMP surge.
- Short-Circuit Protection.

BP 20 AMP PRECISION REGULATED DC POWER SUPPLY

MODEL SU-20A

OUR PRICE $79.95

SPECIFICATIONS
- Output: 13.8V DC - 20 AMP fully regulated low ripple.
- Electronic overload protection with instant automatic reset.
- Input: 117V. AC 60 Hz - Fuse Protected.

BP FAN

MODEL C-3

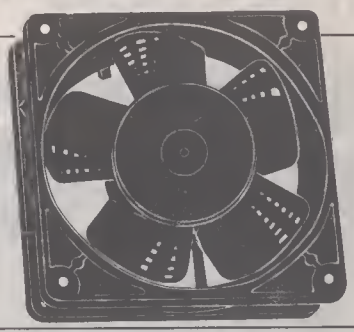
OUR PRICE $17.95

This 3.14 inch fan has die-cast aluminum casing and is UL recognized. Color black.

MODEL C-4

OUR PRICE $17.95

This 4-1/2 inch fan is also die-cast aluminum and has been UL recognized. Color black.

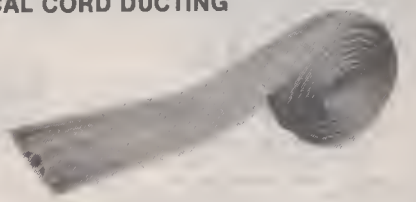


CORDGARD ELECTRICAL CORD DUCTING

For Safety in the Workplace

DESCRIPTION

Cordgard solves the problem of all those hazardous, ugly electrical wires and cables running across the floor. This over-the-floor electrical cord ducting provides a quick, inexpensive and attractive way to protect and cover electrical cords and computer cables. The neutral beige color of Cordgard blends with any decor.



Model	Length	Width	Height	Ship. Wt.	Our Price
G-6-BE	6 ft.	3"	9/16"	4 lbs.	$10.95
G-15-BE	15 ft.	3"	9/16"	9 lbs.	24.95
G-50-BE	50 ft.	3"	9/16"	29 lbs.	69.95

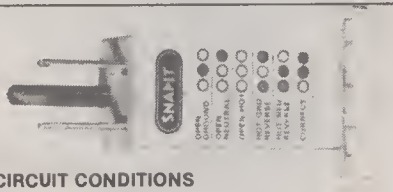
SNAPIT

AMP AC FAULT FINDER

MODEL 49662

OUR PRICE $5.95 each

10 FOR $50.00



CHECKS ALL THESE ELECTRICAL CIRCUIT CONDITIONS

•Open Ground •Open Hot •Open Neutral
•Correct •Hot/Ground—Reversed •Hot/Neutral—Reversed

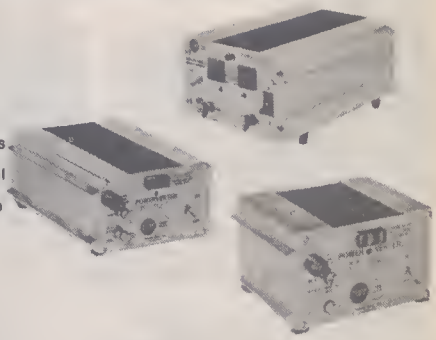
DESCRIPTION

This revolutionary AC Fault Finder has indicator lights and chart on both sides to describe the condition for each lighting arrangement. Plug in add illuminated signals indicate: reverse polarity, faulty wiring, missing grounds and/or correct wiring conditions.

TRIPP LITE POWER INVERTERS

Solid State Square Wave
12 VDC to 117 VAC

Quality solid state, efficient units deliver 117 VAC output from a 12 VDC input supply. Ideal for use in car, trailer, boat, truck, camper, for lighting, radios, phones, TV, business machines, tools, shavers, tape recorders, etc. Selection of the model to serve your needs dependent upon appliances you wish to use. Inverters are not recommended for use with refrigerators, air conditioners, fry pans, toasters, coffee pots, irons, heater, heavy current devices and other reactive loads. Inverters are available in two series. STANDARD series for operating appliances and tools in which frequency drift is not critical. FREQUENCY CONTROLLED series for AC output voltage at 60 Hz ± 1 Hz.



STANDARD SERIES

TRAVELER'S POWER INVERTER
MODEL PV-200
OUR PRICE $79.95

200 watts continuous power or 220 watts intermittent. Equipped with single outlet receptacle. Fuse protected. Size: 3-1/2" x 6-1/2" x 5-1/2". Shpg. Wt: 7 lbs.

POWER INVERTER
MODEL PV-400
OUR PRICE $129.95

400 watts continuous power or 450 watts intermittent. Equipped with on/off switch, single outlet receptacle and fuse protection. Size: 3-1/2" x 6-1/2" x 9". Shpg. Wt: 14 lbs.

POWERVERTER
MODEL PV-550
OUR PRICE $179.95

550 watts continuous power or 600 watts intermittent. Provided with polarity protection on input circuit and pilot light to indicate overloads. Has on/off switch and two grounded type outlet receptacles. Size: 5" x 9-1/2" x 9". Shpg. Wt: 19 lbs.

FREQUENCY CONTROLLED SERIES

MODEL PV-250FC
OUR PRICE $179.95

250 watts continuous power or 275 watts intermittent. Operates frequency sensitive devices. Single AC receptacle, fuse protected, on/off switch. Size: 3-1/2" x 6-1/2" x 9". Shpg. Wt: 16 lbs.

MODEL PV-500FC
OUR PRICE $299.95

500 watts continuous power or 550 watts intermittent. Features — polarity protection on input circuit, pilot light "overload", fuse protection, 2 grounded type receptacles for AC output, on/off switch. Jack on front panel facilitates remote on/off operation. Size: 5" x 9-1/2" x 9". Shpg. Wt: 19 lbs.

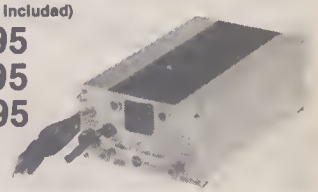
MODEL PV-1000FC
OUR PRICE $449.95

1000 watts continuous power or 1100 watts intermittent. Polarity protection provided on input circuit. Pilot light indicates overload. Has 2 grounded type AC outlet receptacles, circuit breaker protection, on/off switch. Jack on front panel facilitates remote on/off operation. Size: 5" x 9-1/2" x 17". Shpg. Wt: 45 lbs.

TRIPP LITE EMERGENCY POWER SYSTEMS

POWER OUTAGE SOLUTIONS! (Batteries Not Included)

MODEL SB-200 OUR PRICE $219.95
MODEL SB-400 OUR PRICE $319.95
MODEL SB-1000 OUR PRICE $649.95



FEATURES

Each Unit Includes:
- Automatic, heavy duty, regulated battery charger for trouble-free recharging after a power failure
- Automatic load transfer switch, for virtually uninterrupted power when your line voltage fails, as fast as 10 milli-seconds
- Rugged rectangular wave form, DC to AC inverter for reliable AC power
- Circuit breaker and/or fuse on the DC line to protect equipment from overload
- Status indicating power lights to indicate presence of line power or battery power.
- Multiple receptacles to handle all your power needs.
- Frequency controlled 60 Hz ± ½ Hz (except for models SB-200 & SB-400)

DESCRIPTION

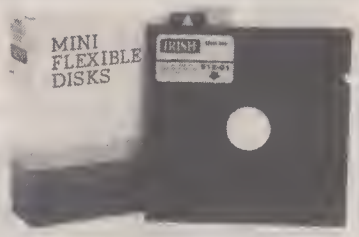
During normal conditions, line power feeds directly through the transfer relay to the load being powered. It also flows to the battery charger circuit, which converts high voltage AC to regulated low voltage DC. This control circuit monitors the battery charger, and cuts off the charge current when the battery is fully charged, thus minimizing premature battery aging and water loss. It will also shut down the entire system when the battery drops to 10V (in a 12V system, or 20V in a 24V system), thus preventing damage to battery through over discharge.

These SB models are designed for a variety of applications, such as telephones, computers, paging systems, and answering systems. Batteries are not included, so the individual user can select the type and size of battery most suitable for his individual needs. The back-up time on the SB Series is only limited to the amount of battery power you connect to it. SB units are the proper choice when the smaller self-contained BC units cannot operate for an adequate time. Complete battery selection information is included with each system.

SPECIFICATION	SB-200	SB-400	SB-1000
CAPACITY (wattage)	200 VA	400 VA	1000 VA
INPUT VOLTAGE (DC)	12	12	12
Maximum, automatic transfer time from line power to battery power or back again	10 ms	10 ms	12 ms
OUTPUT VOLTAGE (AC)	117	117	117
FREQUENCY (Hz)	60 Hz	60 Hz	60 Hz (± ½)
NUMBER OF AC PLUG-IN RECEPTACLES	2	2	2
BATTERY CHARGE RATE (max)	2 amps	2 amps	8 amps
Recovery ratio (recharge time to running time @ full load	8:1	18:1	10:1
CURRENT DRAW AT FULL LOAD (amps)	18 amps	35 amps	85 amps
IS THE AC INPUT OVER-CURRENT PROTECTED	YES	YES	YES
HEIGHT	3⅝"	3⅝"	5"
WIDTH	7¼"	7¼"	10"
DEPTH	11½"	11½"	14"
WEIGHT	10 lbs.	18 lbs.	34 lbs.
ALARM INCLUDED	No	No	No

COMPUTER ACCESSORIES

IRISH MINI FLEXIBLE DISKS



MODEL 511-01

10 FOR $15.00

5.25" single side single density 40 tracks/side hub ring

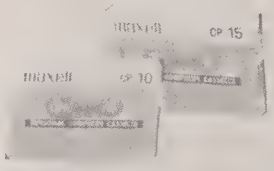
MODEL 512-01

10 FOR $18.00

5.25" single side double density 40 tracks/side hub ring.

MODEL 522-01 10 FOR $25.00 5.25" double side double density 40 tracks/side hub ring

MAXELL DATA CASSETTES



DESCRIPTION

Developed expressly for personal computers, each utilizes high output tape design, so vital for digital applications. Short enchoring leader initiates read/write instantly.
Housing guaranteee smooth, stable operation.
Available in 10 and 15 minute formats.

MODEL CP-10 10 minute format **OUR PRICE $2.69**

MODEL CP-15 15 minute format **OUR PRICE $2.69**

MAXELL MINI FLOPPY DISKS

MODEL MD2-D

OUR PRICE 10 FOR $30.00

DESCRIPTION

Soft-sectored, unformatted. Double-sided, double density. Ideal for the IBM PC and many other personal computers that have double-sided disk drives.

MINI FLOPPY DISK

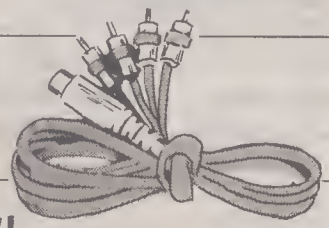
MODEL MD1-D

OUR PRICE 10 FOR $20.00

DESCRIPTION

Soft-sectored, unformatted. Single sided, single or double density. Ideal for Apple® IIe, or III, Atari® 600XL Franklin Ace 1000, Radio Shack TRS-80® model and many other home computers that have single-sided disk drives.

BP MONITOR CABLE WITH ADAPTOR



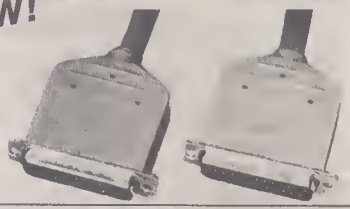
MODEL COMP-707 (RR-54)

OUR PRICE $2.95

Universal High Resolution, 4 feet

BP COMPUTER CABLES

NEW!



MODEL COMP-740

OUR PRICE $19.95

10 Ft. RS-232 — RS-232 cable with DB-25 pin male to DB-25 pin male

MODEL COMP-741

OUR PRICE $19.95

10 Ft. RS-232 — RS-232 cable with DB-25 Pin Male -DB-25 Pin Female

BP COMPUTER CABLES

NEW!

MODEL COMP-742

OUR PRICE $19.95

10 Ft. 36 Pin Male - 36 Pin Male Centronic Type

MODEL COMP-743

OUR PRICE $19.95

10 Ft. 36 Pin Male - 36 Pin Female Centronic Type

AXIOM PARALLAX PRINTER INTERFACES FOR COMMODORE

MODEL CD-848

OUR PRICE $69.95

The Commodore Axiom ParallAx connects any standard parallel-input printer to your computer. It is self-powered: works with or without Peripheral Expansion System. Has a built in self-test of interface and printer. Can be left margin, set left margin, set line length and set line to line spacing. The ParallAx CD-846 runs all standard software, is compact, easy to install and use.

BP JOYSTICK

MODEL V-8801

OUR PRICE $4.95 each

2 FOR $8.00

DESCRIPTION

This joystick can be used with Atari® Home Video Game and the Atari® 400 and 600 Home computers.

Atari® is a registered trademark of Warner Communication.

BP JOYSTICK

MODEL V-8802

OUR PRICE $6.95 each

2 FOR $12.00

FEATURES

- Large grip handle gives positive and comfortable action.
- Membrane switches used throughout.
- Four suckers fitted.
- Individual boxing, export carton holds 50 pcs. Cubic capacity 3.6 cuft.

WICO THE BOSS™ JOYSTICK

MODEL 50-2030

OUR PRICE $12.95

FEATURES

- Precision-engineered P.C. board with reed leaf switches.
- No-slip hand-molded grip.
- Ultra-tough thermo-molded base.
- Reflex-action fire button.
- Dimensions: 6-3/4"H x 4"W x 4"D.

Recommended For:
Atari® 2600,™ 400,™ Sears Arcade Game, Commodore Vic-20,™ Times,™ and Sinclair™ Computers

Atari® is a registered trademark with Warner Communications

BP JOYSTICK EXTENSION CORDS

MODEL V-4555 6' length

OUR PRICE $2.50

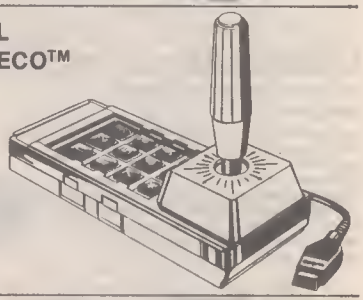
MODEL V-4556 12' length

OUR PRICE $2.95

DESCRIPTION

For use with all joysticks and where necessary.

WICO COMMAND CONTROL JOYSTICK/KEYPAD FOR COLECO™



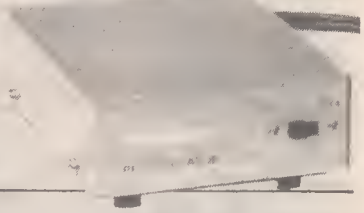
MODEL 50-0299

OUR PRICE $19.95

FEATURES

- Completely redesigned, inside & out.
- New base contoured to fit ADAM™ & ColecoVision™ systems.
- New keypad design makes ALL Coleco™ game overlays easier to use.
- New tactile feel fire buttons.
- Dimensions: 5-1/2"H x 2-3/4"W x 6-3/8"D

BP VIDEO/COMPUTER RF MODULATOR



MODEL COMP-022

OUR PRICE $19.95

DESCRIPTION

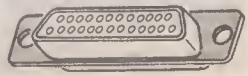
Converts Audio/Video output from color processors, computer, TV games and video cameras to channels 3 or 4 on any TV.

BP D CONNECTORS

MODEL DB-25P

OUR PRICE $2.95 each 10 FOR $25.00

25 Pin plug. Gold plated contacts.



MODEL DB-25S

OUR PRICE $2.95 each 10 FOR $25.00

25 Socket.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

TEKNIKA 13" COLOR DISPLAY MONITORS

Composite & Separated Video

MODEL MJ-10

OUR PRICE $199.95

For the Commodore 64, VIC-20, Atari® 800XL,1200XL & other personal computers.

MODEL MJ-22

OUR PRICE $299.95

FEATURES MJ-10

- Unbeetable coet-parformance.
- Designad especielly for computar with separated Vidao (chroma/luminanca) signal. Aleo for computars with NTSC composite signel.
- Built-in "Audio" capability. • Ceble for separatad vidao included. • U.L. listad, FCC Class B end DHHS epproved.

SPECIFICATIONS MJ-10

CRT: 13" 90° In-line, 0.6mm slot pitch, derk feca, high resolution. **Input Signele** NTSC composite/sepereted vidao (luminance, chroma) **Reeolution:** Compoelte: 300 linas, Sapareted: 400 lines **Video Bandwidth:** Composita: 3 MHz, Seperated: 4 MHz. **Scenning Frequency:** Horizontal: 15.734 kHz, Varticel: 80 Hz **Audio: Input: 0.4 Vrme. 47 k ohme, Output: 0.8 W Power Input:** AC 100-32 V, 49-63 Hz. **Power Coneumption:** 72W. **Cabinet Beige. Dimenelons:** 14H x 14.5W x 15.2"D. **Weight:** 26.4 lbs. **Front Controls (behind penel)** H. Pos. V. Hold Cont., Bright, Color, Tint. **Cebles Included.**

DESCRIPTION MJ-22

The Taknike MJ-22 Is e 13" color displey monitor designed for maximum velua and flaxibility. It eccepts RGB, composite or sepereted vidao from virtually eny personal computer. High resolution RGB inputs (506 x 240) are providad for the IBM PC, PCjr, Appla IIe, Apple III and thair competibles. The RGB display faetures exceptional raproduction of 16 colors that actually metch thair namas presented in the computar'e tast pettern. Brown is brown, eque is equa, yellow is yallow — not just the approximetione of moat othar monitors. Computers with NTSC compoelte vidao also parform best with the MJ-22. Grephics end taxt diaplays ara presanted with unsurpessed brilliance and full color. With computars thet provide saparate chrome end lunimanca signels, euch es the Commodore 64 end Atari 800, even sherper, more defined imagaa are possible. Tha uniqua cepebility of the MJ-22 to accapt RGB or composita (or sepereted video) signals is anhancad with en RGB/Composita push button thet ellows immadiate selection of elthar input type — perticularly useful on tha IBM PC and PCjr for switching between full RGB color and monochroma taxt. For viewing comfort, the acraen is edjustebia within e 0-8° renga. A built-in speakar and audio empiifiar accommodetes gema end instructionel software. Accessory cebias ere evellable to aasily connact tha monitor with most mejor computar. Apple IIa usars can upgrada thair systam evan furthar by adding e Teknika 80 column RGB boerd. Besidas providing tha extre medium end high rasolution graphic modas, the boerd ellows tha user to chooee ember, green, blue or whita text cherectars. U.L. listed, FCC Class B end DHHS epprovad.

OPTIONAL ACCESSORIES MJ-22

MODEL MA-20 Ceble eet for Commodora, Atari, TI, Timax-Sincleir, atc. (5-pin DIN) **$24.95.**
MODEL MA-21 Cabla for IBM, PC, PCjr **$39.95.**
MODEL MA-23 Cabla for Apple Ile (RGB boerd requirad) or Apple III **$39.95.**

STRETCH DEVICES, INC.

SILVERLINE™

ANTI-GLARE SCREEN

ANTI-GLARE & ANTI-REFLECTION FILTER FOR YOUR VIDEO DISPLAY TERMINAL

FEATURES

- Ergonomicelly designed microwaeve mesh filter.
- Reduces aye irritetion end fetigua.
- Enhences dete imaga.
- Instells onto terminal without tools.
- Will not void menufecturer'e warrenty on you termiel.

DESCRIPTION

The Silverline Anti-glara screen ettachas to your terminal using Velcro® tebs. These Velcro® tebs require e 1/2" wida fiet mounting surfaca on the houeing surrounding tha vidao scraan. Tha Silverline Anti-glara scraan is 1/2" wide x 1/4" deep. Maesura the inside dimenelons (height end width) of the fiet surfece of your tarminel housing end edd 1" (1/2" per side) to aech dimension to ellow for mounting surfeca of the Anti-glere ecreen.

Compere your meeeurements to the measuremants below to datermine tha closest Silvarlina ecreen to fit your terminel.

MODEL	SIZE	OUR PRICE	MODEL	SIZE	OUR PRICE
COMP-301	7-13/16" X 12-13/16"	$29.95	COMP-304	9-1/2" X 12"	29.95
COMP-302	6-13/16" X 12"	29.95	COMP-305	10" X 13"	29.95
COMP-303	6-7/6" X 11-5/6"	29.95	COMP-306	10-13/16" X 13"	29.95

CASIO DATA BANK

MODEL PF-7000

OUR PRICE $59.95

DESCRIPTION

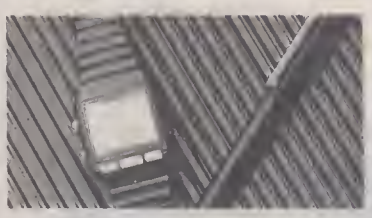
In step with the age of fest information, thesa models provide aasy cerry-eround accass to numarous types of deta. Input is evellebla in a fest end imaginetiva way, end relies on simpla usege end instant evellebility of memorizad fects end figuras.

SPECIFICATIONS

Memory Capecity: 1965 charecters. **Power Source:** Calculation/displey — 2 lithium battaries (CR2025C), Mamory Protection: 1 lithium bettery (CR1220). **Battery Life:** Main power sourca -approx. 250 hours (continuous usa), Memory protaction battary — approx. 2 yaers. **Dimenelone:** 7/16"H x 4-1/4"W x 2-1/2"D (foldad), 11/32"H x 4-1/4"W x 5-3/6"D (unfoldad). **Weight:** 3 oz.

SEIKO PC DATAGRAPH RC-4000 SERIES

NEW!



DESCRIPTION

If your computer handles a big pert of your business let Selko handla tha datalls. Tha PC Detagraph RC-4000 is the smellest, slaekast, computer terminals ever dasignad. It'e is a doctor's eppointment book, salasmen's price list, spaakar's prompter, e busy executive's treval schadula...elegently disguisad as a handsoma, high-feshion quartz timepiece. You can teke just about any kind of computer date wharevar you go -thousends of bits of usaful information, conveniently orgenized in distinct data files. The powerful "messaga" alarm can ba progremmad to elert yourself of meatings scheduled up to a year in advence. Plus e weekly alarm to ramind you of regular daadlines end appointmants, weak eftar week. Data racall is as eesy es pressing e button and raading the dot-matrix disploy.

Wrist and pockat modals ara now aveilable. Each comas with everything you naed for your computar, including en RS232C cabla spacielly formatted eoftware program that makes deta imput a breeza. Both hava 2K RAM mamory, instant date storege and retrieval, upload and download function, end alpha numeric updata capability.

Selko PC Datagraph Wrist Models

RC-4000-1 for Apple IIc	$169.00	RC-4000-2 for Appla II, II+, IIe	$169.00
RC-4000-3 forCommodora 64	$169.00	RC-4000-4 for IBM PC, PCjr & IBM competibias	$169.00

Selko PC Datagraphs Pocket Models with Leetherette Folding Cese

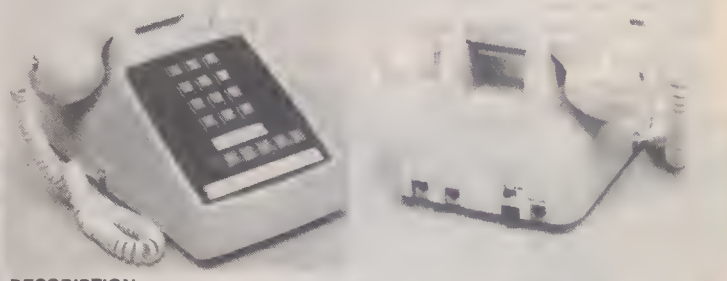
RC-4400-1 for Appla IIc	$125.00	RC-4400-2 for Appla II, II+, IIe	$125.00
RC-4400-3 for Commodora 64	$125.00	RC-4400-4 for IBM PC, PCjr & IBM competibles	$125.00

HALLICRAFTERS

6 KEY PHONE WITH 4 LINE CAPABILITY

MODEL 412 OUR PRICE $149.95

NEW!



DESCRIPTION

A revolutionery system thet employs edvenced technology. Looks lika the phona you'va elways used, but far different. Tha six-key phone is e totel system with the cepebility to hendla 4 linae—and up to 12 instruments. All without expensive common equipment (KSU), end costly cebling. Nothing else lika it for simplicity, aese-of-instelletion end prica-performence. The Hellicreftere 412 makes expensive, complex aystame obsolata.

FEATURES

- Hold Button: to put a call on hold.
- AUX RJ-11 Jeck: connects directly to the salactiva line; can ba usad for auxiliary davices.
- Intarcom Button: Ona intercom peth, diel selact, meximum of 12 stetions.
- No KSU: All ewitching end control circuitry built into tha besa of tha telaphona. No common equipment. No externel perts to fell, elimineting costly meintenence probleme.
- One Smell Centrel Powar Supply: for all the telephones. Power eupply end intercom lines connected through e standard 4/6-pin moduler jeck.
- 12-Button Kay Ped: for Tone Dialing. • Tone/Pulse Switch.
- Ringer On-Off Switch: Electronic Ringer has a pleesant sounding tone.
- Line Stetus Indicetor LED: Fleshes in sequence with ringer to indicete incoming celle, flashes repidly when line is on hold, is steady whan line is in use.
- Talaphone Line Salact Buttons: Telephone linas connected through an 6-pin moduler jeck. Instelletion is simple end aesy uaing ona pair of wira for eech telephone line. No mora 25-peir ceblee to inetell. Wiring cen be individuel home run or singla loop.
- Options Aveileble: Speeker Phone, 9-Number Memory, Battery Backup, Long Distance Tone Button.

Optional Power Supply Model PS-413. . . . $75.00

ZOOM TELEPHONICS

DEMON DIALER

MODEL 93T

OUR PRICE $99.95

NEW!

DESCRIPTION

Imegina a phone dialer that can store up to 93 phone numbare. It will radial a busy numbar for you et high spaed for up to 2 hours. It can dial enyona you need to reech evary 10 minutas up to 10 hours end signal you whan there is an answar. This dieler cen dial up to 32 digits long, listen for diel tones, computar accass tones end, can save you time and money when dialing "Alternate Long Distenca" numbers.

Tha Damon Dielar is tha fastast, moet effective wey to raach anyone, enywhere, by phone. The Demon plugs into any moduler phone in just seconds. You can even use ona Demon to control all the phonas in your home or office. FCC epproved end fully guerantaed.

RCA CLOSED-CIRCUIT VIDEO EQUIPMENT WITH VIDICON TUBE

MODEL TC-1501 120V, 60 Hz.
OUR PRICE **$159.95**
WITHOUT LENS

MODEL TC-1502 24V, 60 Hz.
OUR PRICE **$159.95** WITHOUT LENS

FEATURES
- 120 V, 60 Hz.
- Versatility: Ideal for those low-cost single or multiple camera applications in small businesses, home surveillance, apartment security, video equipment leasing, etc.
- Sensitivity: Usable pictures at only 0.45 fc scene illumination. Full video at only 4.5 foot-candles.
- Resolution Capability: To 550 lines.
- Dynamic Range: 20 000:1 automatic light range.
- EIA RS-170 or CCIR Sync: 2:1 interlace. Phase locked to power line zero crossing for smooth switching and Time Lapse Video Tape Recording.

DESCRIPTION
Short-Proof Low Voltage Power Supply, Automatic Focus Tracking, Controlled Filament Voltage, Ten Step Grey Scale, Auto Black plus Keyed Clamp, White Clipper, Horizontal Drive Loss Protection, Top and Bottom Mount Holes, Balanced Camera Mounting, Lens Options, High Reliability Large Scale Integration (LSI) technology incorporates the majority of circuit functions on two IC's.

NOW AVAILABLE!
MODEL TC-1501U, TC-1502U
Low light version with Ultracon tube.
OUR PRICE **$549.95** each
WITHOUT LENS

RCA ECONOMICAL GENERAL PURPOSE 2/3" CCTV CAMERA WITH VIDICON TUBE

With Premium Camera Features and High Reliability LSI Technology

MODEL TC-2011 120V, 60 Hz.
OUR PRICE **$249.95**
WITHOUT LENS

MODEL TC-2012 24V, 60 Hz.
OUR PRICE **$249.95**
WITHOUT LENS

FEATURES
- 120 V, 60 Hz.
- EIA RS-170 or CCIR Sync: 2 to 1 interlace. Utmost flexibility and freedom from sync problems in multi camera/multi equipment systems.
- Phase Locked Loop: Synchronizes camera to AC power line zero crossing. Provides clean switching, splitting and time lapse VCR performance.
- Genlock: Accepts external composite sync or H&V drives for system synchronization. 60 Hz models lock to RS-170, RS-330 or Random Interlace sync. 50 Hz models lock to CCIR sync.
- Automatic Light Range: Includes selectable 10:1 variable AGC gain/bandwidth amplifier for increased sensitivity and better signal-to-noise performance peak/average response weighting. **Vidicon Cameras:** 100,000:1 AGC plus Automatic Target Control (ATC). Target voltage limiting minimizes tube lag and burn.
- Auto Track Electronic Focus: Automatically tracks electrode voltage of the magnetic focus camera tube — provides high picture quality with no need for readjustment during the life of the camera tube.
- Other Features: Automatic Beam Control (ABC), Auto-Black plus Keyed Clamp, Gamma Correction, Vidicon Positioning Adjustment and Lock, Top or Bottom Mounting, Wide Environmental Range.

DESCRIPTION
Designed using the latest, high reliability LSI technology, RCA TC2000 Series cameras include the more useful features of premium cameras in an economical, compact and attractive design for general purpose use. They are offered in a wide variety of configurations to suit the needs of most installations.

NOW AVAILABLE!
MODEL TC-2011U, TC-2012U
Low light version with Ultracon tube.
OUR PRICE **$649.95** each
WITHOUT LENS

RCA COLOR CAMERA

For Surveillance applications
MODEL TC-5000 Series
OUR PRICE **$849.95**

FEATURES
- Uses Newvicon camera tube.
- Requires only 6 fc scene illumination for full video and only 1 fc for usable picture.
- Automatic white balance.
- Color temperature and color balance controls.

WITHOUT LENS

RCA VIDEO MONITOR

MODEL TC-1910
OUR PRICE **$169.95** each
5 & UP **$159.95** each

SPECIFICATIONS
- Resolution: 750 lines nominal.
- High voltage: 10 kV. • Linearity: 3% or better.
- DC restoration: Pedestal clamp (switchable on/off).
- Sychronization: Internally derived.
- Picture Tube: 9 in. (diagonal). 44-sq. in. viewing area. Integral implosion protection.
- Input: 0.5 to 1.5 V p-p, sync-negative, composite video. High impedance or 75 ohm termination.
- Connectors: Two UHF for looped-through video.
- Front Panel Controls: Rotary—Brightness, contrast, V-Hold, H-Hold. Rocker—On/Off switch (LED power indicator).
- Rear Panel Controls: Slide Switch—Hi Z/75 ohm, DC restoration On/Off. Video sharp/soft (picture/date).
- Supply Voltage: 108 to 132 V, 60 Hz, or 12 to 16 VDC.
- Power: 32 watts at 120 VAC. 17 watts at 12 VDC.
- **Optional Accessory: Rack Mount model TC-1910MK. . . $49.95**

RCA 9" DESK TOP MONITOR

MODEL TC-1109
OUR PRICE **$159.95**

FEATURES
- 9" (Diagonal) Monochrome Monitor.
- Outstanding Picture Quality.
- Solid State Reliability.
- Fast Acting AFC for Stable VTR Playback.
- Quick Start. • 700 Line Resolution.

DESCRIPTION
Suitable for surveillance, industrial, remote installation, VTR playback and many other applications. Up-front rotary operating controls. 11 kV high voltage. Regulated power supply. Automatic Frequency Control.

RCA 12" MONOCHROME VIDEO MONITOR

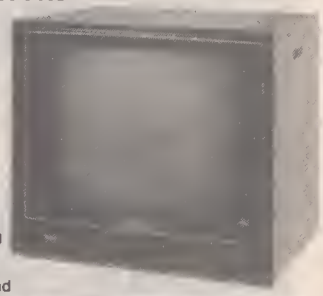
MODEL TC-1112
OUR PRICE **$219.95**

FEATURES
- For surveillance and industrial applications.
- High quality pictures: 700 line resolution. DC restoration. Bright 14.0 kV display. Regulated supply.
- Reliable: Solid state circuits. Stable playback display of VCR.
- Video input bridging with switchable 75 ohm termination.
- Quick-start without CRT preheating.
- Isolation power transformer.
- LED power indicator.

RCA MONOCHROME VIDEO MONITORS

MODEL TC-1115
15" 525 lines, 120 V, 60 Hz.
OUR PRICE **$269.95**

MODEL TC-1119
19" 525 lines, 120 V, 60 Hz.
OUR PRICE **$349.95**



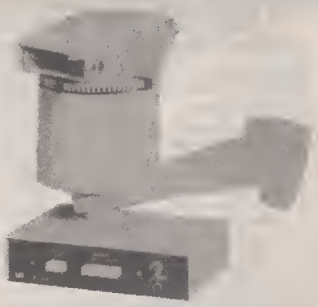
DESCRIPTION
TC-1115 - High resolution 800 line monitor with video selector switch for optimum picture. Switchable DC restoration, regulated power supply, and video bridging (switchable 75 ohm termination).
TC-1119 - High resolution 800 line monitor suitable for time-lapse VCR's. Regulated supply, DC restoration, and video input bridging (switchable 70 ohm termination).

RCA 10-INCH COLOR MONITOR

MODEL TC-5510AU
OUR PRICE **$349.95**

FEATURES
- Automatic degaussing.
- 22 kV picture power.
- Video sharpness control for optimum picture.
- Built-in audio.
- Fast warm-up time—less than 7 seconds.

RCA SCANNING SYSTEM
ALLOWS REMOTE OR AUTOMATIC SCANNING
MODEL V-3000

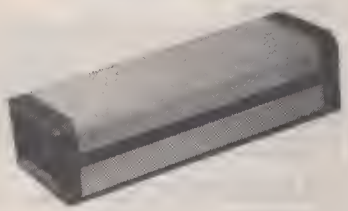


OUR PRICE **$299.95**

FEATURES
Comes Complete With:
- Wall mount (RV-1600WM).
- Scannar (RV-3200AP).
- Remota box (RV-130AP).

DESCRIPTION
The contemporary styled V3200AP Scenner Package incorporates Vicon's yesrs of experienca in producing dapendable, economically pricas scannare. Simple adjustable snap-on stops assure easa of instellation and flexibility in selecting araa coverage. Tha Desk-Top Control ahown provides e dual control combination for autometic scanning or menual modee of operation. Raquires 4 conductor cabla between control box end scannar.

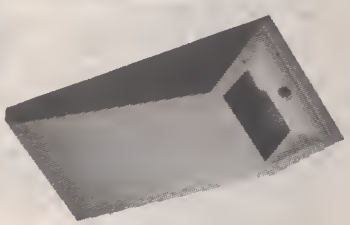
RCA INDOOR HOUSINGS
MODEL V-8800H



OUR PRICE **$95.00**

DESCRIPTION
The V8600H ie e durable end compact indoor housing, dealgnad to protect camaree from dust in high-visibility inetallations. Constructed of lightweight aluminum end plastic, the attractively styled housing accommodates most 2/3-inch CCTV cameras, fixed focal length and auto-iris lenses, end ell 2/3-inch ComPacLans zoom lenses.

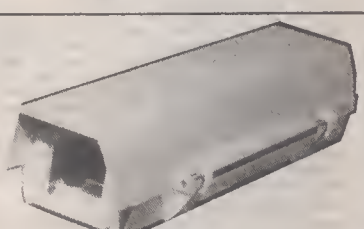
RCA CEILING ENCLOSURE
MODEL V-8860H



OUR PRICE **$114.95**

DESCRIPTION
Tha compect Modal V8660H Ceiling Enclosure provides an inconspicuous end versetile ceiling housing for CCTV cameras. The eturdy injection molded plaetic housing is constructad eo that the camara can ba easily adjusted end the lens focused from below the ceiling. Eiectricel connections are mada through opanings in the top, end e duplex outlet is provided for camere power.

RCA ENVIRONMENTAL ENCLOSURE
MODEL V-8300H



OUR PRICE **$179.95**

DESCRIPTION
The Model V8300H Enclosure is a compact enclosure epecifically dasigned for outdoor use snd will accommodeta moet 2/3-inch CCTV cameres and lenses. The enclosure can be ordarad with a thermostatically controlled blower, Model V-8300H-B, and heater, Modal V-8300H-H, which meintain temperetures within oparating limits for the ancloeed equipment. A sunshield, Modal V-8300H-S, may also be ordared if required.

V-8300H-B Blower $83.00
V-8300H-H Heater $83.00
V-8300H-S Sunshield $63.00

RCA WALL AND CEILING MOUNTS
NEW!

GENERAL PURPOSE MOUNT
MODEL TC-9200 OUR PRICE **$19.95**

An aconomicel 6" General Purposa Mount for loads up to 20 lbs. (9 kg), used as e well mount. It hes an aluminum finish end e sleeve bail mount clamp.

GENERAL PURPOSE MOUNT
MODEL TC-9201 OUR PRICE **$24.95**

A deluxe 6" Genaral Purpose Mount for ioads up to 20 lbs. (9 kg), used es a wall mount. It hes a glossy black finish and e iever typa ball mount clamp for quick adjuetments of cemera position.

WALL MOUNT
MODEL TC-9202 OUR PRICE **$29.95**

A Well Mount extendable from 9.6" to 16.3" (244 mm to 414 mm). it can accomodate loads up to 22 lbs. (10 kg) in both the short and the fully extended configuration.

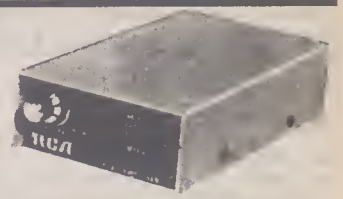
UNIVERSAL WALL/CEILING MOUNT
MODEL TC-9203 OUR PRICE **$44.95**

An 6.7" (220 mm) Universal Wall/Calling Mount for loads up to 22 lbs. (10 kg). The right engle curve in the support arm cen accomodate many otherwise difficult mounting requirements.

WALL MOUNT
MODEL TC-9204 OUR PRICE **$49.95**

DESCRIPTION
A sturdy, medium duty 9.6" (250 mm) Weil Mount for loads up to 33 ibs. (15 kg).

RCA SEQUENTIAL SWITCHER
MODEL TC-1404



OUR PRICE **$179.95**

FEATURES
- Low Coet. • 4 Camera. • Vertical-Interval.
- Sequential ewitcher. • Ralielbla CMOS IC's.
- Low power consumption. • Alarm Call-up.
- Up to 4 camera inputs automatically sequenced to one monitor.
- Instant selaction with positiva kay-action switch for aech cemera.
- Variable dwall time cen be set for 3 to 70 seconds from front panel.
- Alermed cemere call-up from motion detectors or slarm closures.
- Camere identification with front panel tally lights to indicate displayed camara.
- Simplifiad controls, human enginaered for quick, logical operation.
- Smell siza. Dask top-or quartar-panel reck mount with additional RCA Switchers, Motion Detector or Time end Date Generator.

MODEL TC-1408
OUR PRICE **$595.00**
Same as above plus alarm featuras, 6 position

RCA TIME LAPSE VIDEO RECORDER
NTSC MONOCHROME AND COLOR
MODEL TC-3700

NEW!

OUR PRICE
$1599.95

FEATURES
- Standard 10-speed tima lepse VCR with all the basic time lepsa featuree.
- Eesy-to-Use for thosa "averydey" CCTV epplicetions. • Time-of-Alarm mamory and racall.
- High epeed visuel search - forward or raverse. • Ten pleyback speeds - forward or raverse.
- Still fleid and field-edvence playback. • 24 hour memory protection.
- Electronic security lockout. • Programmable lockout.
- Usable eudio at 2 and 12 hour speeds. • "Alarm On" end "Recording On" Outputs.

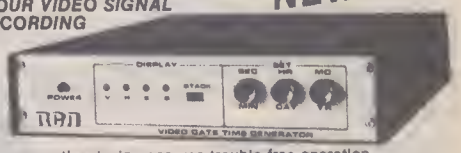
RCA VIDEO PRINTER
MODEL TC-800
NEW!

OUR PRICE **$499.95**

DESCRIPTION
Instant printed copies of video picturas on your monitor or from your Video Recorder. Thia compect thermal printer produces positive or negativa prints. It has adjustable video level and contrest end gives approximately the same resolution as a TV receiver.

TC-801 Thermel paper for TC-600 ..... $24.95
4 rolls per pscka**ge.**

RCA DATE AND TIME GENERATOR
PUT DATE AND TIME ON YOUR VIDEO SIGNAL
IDEAL FOR TIME-LAPSE RECORDING
MODEL TC-1440B
NEW!



OUR PRICE **$395.00**

FEATURES
- Power line accurecy.
- No cumuletive errore.
- Latest CMOS tachnology and conservative dasign essures trouble frae operation.
- Stendby electronic "flywheel" during brief powar tallures-no loss of timing information.
- Zoom character size control - 5 to 15% of picture height.
- Looped-through video unaffectad by generator - avan it off.
- Display positioned anywhere on screen - steckad or horizontal.
- Manual brightness control plus...autometic edaption to changes in background brightness ievel.
- Useble with rendom or poaitive intariece camara - color or monochroma.
- Recassed duel-action front panei ewitches set date end time.
- Built-in calendar trecks deys, montha, end years (including leep-yeare) automatically.
- No ecciental turn off - powered with iine cord insertion - no powar ewitch.

RCA 24 VOLT TRANSFORMER
MODEL TC-1324

OUR PRICE **$12.95**

24 V, 60 Hz transformer. Provides low voltage power for one TC1500 family 24 VAC camera. Plugs into standard wall receptacle.

24 VOLT TRANSFORMER
MODEL TC-1334

OUR PRICE **$16.95**

Seme purposa as TC1324 excapt will operate one TC2000 femiiy, ona TC1005 family or two TC1500 family 24 VAC camaras.

CCTV MONITORS/SWITCHERS

PANASONIC BLACK AND WHITE CCTV MONITOR

MODEL TR-930

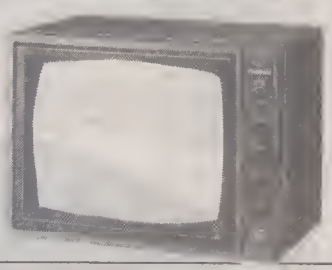
OUR PRICE **$149.95**

FEATURES
- 9" (measured diagonally) desktop monitor front panel operating controls more than 700 lines at center.
- All solid state.

PANASONIC BLACK AND WHITE CCTV MONITOR

MODEL TR-124M

OUR PRICE **$199.95**



FEATURES
- 12" (measured diagonally) monitor.
- Front mounted operating controls.
- More than 700 lines at center.
- All solid state*.
- Rack mountable with optional EIA 19" rack mount (TY-K124).

PANASONIC 9" HIGH RESOLUTION MONITORS

MODEL WV-5370

OUR PRICE **$249.95**

MODEL WV-5371
Single Monitor with Rackmount

OUR PRICE **$269.95**

NEW!

MODEL WV-5372
Two Monitors with Rackmount

OUR PRICE **$499.95**

DESCRIPTION
These monitors provide crisp, detailed pictures with a horizontal resolution of 750 lines at center. Unipotential picture tubes maintain focus under variable brightness settings. Standard features include selectable scan and short H. AFC time constant for VTR playback. The WV-5370 features a ready-connector for integration into alarm activated systems. A built-in cable compensator boosts picture quality over extended distance.

PANASONIC 5" HIGH RESOLUTION B/W MONITORS

MODEL WV-5200B

OUR PRICE **$249.95**

MODEL WV-5203B
Triple Video Rack Mount

NEW!

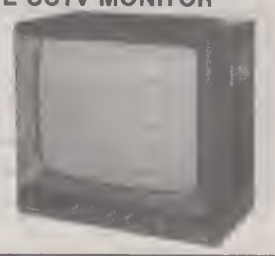
OUR PRICE **$795.00**

DESCRIPTION
The desk top model WV-5200B and the triple rack mount model WV-5203B both have highly detailed pictures with a horizontal resolution of 600 lines at center. Each provides a stable black reference with switchable DC restoration preventing excessive contrast while preserving shadow detail.

PANASONIC BLACK AND WHITE CCTV MONITOR

MODEL WV-5410

OUR PRICE **$279.95**



FEATURES
- 12¾" screen (measured diagonally) desktop video monitor.
- Horizontal resolution 650 lines at center.
- DC restoration switchable.
- Short H. AFC time constant.
- Looping through BNC connectors for video and sync input and output.
- Rackmountable with optional rack angle bracket (WV-Q20).
- All solid state.

PANASONIC BLACK AND WHITE CCTV MONITOR

MODEL WV-5470

OUR PRICE **$349.95**

FEATURES
- Deluxe Studio monitor.
- 16¼" screen (measured diagonally).
- Horizontal resolution more that 650 lines at center.
- DC restoration switchable.
- Short H. AFC time constant.
- Looping through BNC connectors for video and sync input and output.
- Rack mountable with optional rack angle bracket (WV-Q22).
- All solid state.

PANASONIC BLACK AND WHITE CCTV MONITOR

MODEL WV-5490

OUR PRICE **$399.95**

FEATURES
- Deluxe studio monitor.
- 19¼" (measured diagonally).
- Horizontal resolution more than 650 lines at center.
- H-AFC time constant: short time constant for industrial VTRs, L/S switchable.
- Scanning size: overscan/underscan switchable.
- DC restoration: on/off switchable.
- High voltage 16KV.
- All solid state.

PANASONIC COLOR VIDEO MONITOR

MODEL CT-1020M

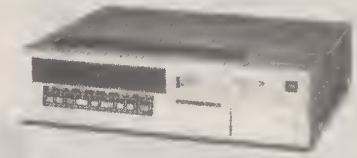
OUR PRICE **$349.95**

FEATURES
- 10" (measured diagonally) Quintrix II in-line picture tube with Quick-on picture.
- Black Matrix configuration.
- ColorPilot.
- BNC-type video connectors.
- Panabrite control.
- Three-prong power plug.
- Sturdy metal cabinet.
- Commercial UL listing.

PANASONIC 1/2" TIME LAPSE VIDEO CASSETTE RECORDER

MODEL AG-6010

OUR PRICE **$1795.00**



FEATURES
- VHS Mode/Time Lapse Mode Recording. • Recording System Versatility.
- Timer Recording. • Recording-Lock. • Built-in Time/Date Generator.
- Automatic Repeat Recording. • Automatic Recording After Power Failure.
- Alarm Recording. • Hour Meter. • Multiple Search Functions.
- High Reliability and Durability. • Built-in RF Converter.

DESCRIPTION

A NEW ERA IN TIME LAPSE RECORDING.
The new AG-6010 1/2" Time Lapse Video Cassette Recorder is a versatile unit equipped with multiple search functions and a built-in time/data generator. The AG-6010 is a reliable, economical time lapse video recorder for CCTV Systems. In addition to the 24-hour and 72-hour time lapse recording features for observation and surveillance applications, this new model also includes 2-hour standard play and 6-hour super-long play VHS modes. The recording lock function prevents external tampering of the system after the unit is in the recording mode, and the built-in time/date generator adds a valuable feature at no additional cost. An advanced four-head system allows recorded images to be reviewed easily with excellent reproduction, even in clear still, clear slow and frame shift modes.
These are just a few of the many features that make the AG-6010 the Ideal Time Lapse Video Cassette Recorder for efficient, reliable and fully versatile economical surveillance and monitoring requirements.

SPECIFICATIONS
Power Source: 120V AC, 60/50 Hz. **Power Consumption:** Approx. 45W. **Television System:** EIA Standard (525 lines, 60 fields) NTSC color signal. **Video Recording System:** 2 rotary heads, helical scanning system, Luminance: FM azimuth recording, Chrominance: converted sub carrier phase shift recording. **Audio Track:** 1 track. **Tape Format:** Tape width 1/2 inch (12.7 mm), VHS tape. **Tape Speed:** SP; 1-5/16l.p.s. (33.35 mm/s) SLP; 7/16l.p.s. (11.12 mm/s). **Record/Playback Time:** 2/6/24/72-hour mode with NV-T 120 tape. **FF/REW Time:** Less than 4.5 min. with NV-T 120 tape. **Input Level:** Video (BNC): 1.0Vp-p, 75 ohms unbalanced, Audio (RCA): -20dB, 47 kohms unbalanced, Alarm Signal Input: contact closure for alarm, Alarm Reset Input: + 12V (min, current 2mA). **Output Level:** Video (BNC): 1.0Vp-p, 75 ohms unbalanced, Audio (RCA): -6dB, 1 Kohms unbalanced, Alarm Recovery output: + 5V, 220 ohms, **RF Modulated:** Channel 3 or 4 (selectable) 66.5dBu (open voltage), 75 ohms unbalanced. **Video Horizontal Resolution: (on monoscope test pattern)** Monochrome: more than 300 lines, Color: more than 240 lines. **Audio Frequency Response:** 50-12,000Hz (SP mode). **Signal-to-Noise ratio:** (Rohde & Schwarz Noise Meter) Video more than 45dB (SP mode), Audio: more than 43dB (SP mode). **Operating Temperature** 41°F -104°F (5°C - 40°C). **Operating Humidity:** 35%-60%. **Weight:** 25.3 lbs. (11.5 kg). **Dimensions:** 16-15/16"(W) x 4-9/16"(H) x 14-11/16"D, 430(W) x 115(H) x 372(D) mm. Specifications are subject to change without notice.

PANASONIC SEQUENTIAL SWITCHERS

MODEL WJ-521 OUR PRICE **$289.95**

FEATURES
- Sequential Switcher, accepts up to 6 camera inputs, two video outputs: sequential and spot monitor; front panel indicator lamps; manual selection of any camera for display on second monitor.
- Switching interval manually adjustable from 1 to 30 seconds.
- 12-pin connector for optional remote selection of the spot monitor output.
- BNC connectors.

MODEL WJ-523 OUR PRICE **$329.95**

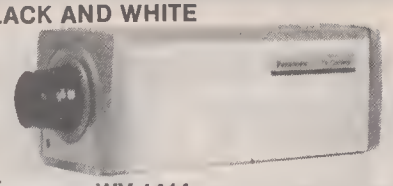
FEATURES Same as above plus it can accept up to 10 camera inputs.

PANASONIC VIDICON BLACK AND WHITE CCTV CAMERAS *WITHOUT LENS*

MODEL WV-1410

OUR PRICE $179.95

FEATURES
- 2/3" general purpose Vidicon Camera without lens.
- Switchable line lock random interlace or internal 2:1 EIA RS-170 sync.
- Automatic focus control.
- Automatic beam control.
- Adjustable vertical phase accepts optional camera identification generator board (model WV-Q90).
- 120V AC, 60Hz.



MODEL WV-1414

OUR PRICE $179.95

FEATURES
- Same as above. • 24V AC, 60 Hz.
- 1/3" general purpose low voltage Vidicon Camera.

LOW LIGHT NEWVICON CAMERA

MODEL WV-1460. . . $599.95
Same features as the WV-1410

LOW LIGHT NEWVICON CAMERA

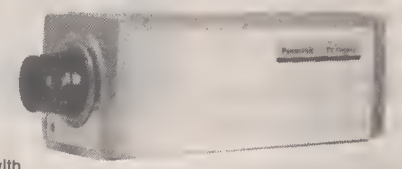
MODEL WV-1464. . . $599.95
Same features as the WV-1414

PANASONIC VIDICON BLACK AND WHITE CCTV CAMERAS *WITHOUT LENS*

MODEL WV-1500

OUR PRICE $269.95

FEATURES
- 2/3" high performance Vidicon Camera with 16mm, f/1.6 C-mount lens, line lock random or internal 2:1 interlace (RS-170) or external sync (Genlock RS-170).
- Black clamp, L.L. Phase video level control.
- AGC on/off switch.
- Accepts optional camera identification generator board (model WV-Q90).
- Accepts optional splitter board (model WV-Q91).
- 120V AC, 60Hz.



MODEL WV-1504

OUR PRICE $269.95

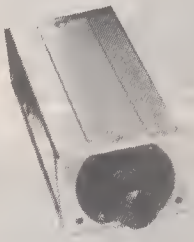
FEATURES
- Same as above.
- 2/3" high performance low voltage Vidicon Camera.
- 24V AC, 60Hz.

PANASONIC HIGH RESOLUTION CAMERAS BLACK AND WHITE (BODY ONLY) *WITHOUT LENS*

MODEL WV-1800

OUR PRICE 689.95

FEATURES
- 1" separate mesh Vidicon camera (body only without lens).
- Horizontal resolution more than 600 lines at center.
- Built-in EIA. • RS-170 LSI sync generator.
- Genlock feature.
- Automatic Beam Control (ABC).
- Automatic electronic focus control.
- Automatic gain control. (AGC).
- Automatic switching of internal/external sync modes.
- Internal sweep reversal connector for mounting position flexibility.



- Sweep protection circuit.
- Heavy duty die-cast chassis
- 120V AC, 60Hz.

MODEL WV-1804

OUR PRICE $689.95

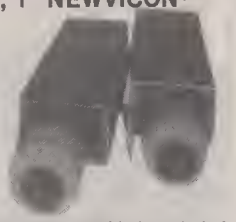
FEATURES
- Same as above. • 24V AC, 80Hz.

PANASONIC LOW LIGHT LEVEL CCTV, 1" NEWVICON® CAMERAS (BODY ONLY) WITHOUT LENS

LUNAR LIGHT 600 LINES HORIZONTAL RESOLUTION

MODEL WV-1900
120V AC
OUR PRICE $4495.00

NEW!



MODEL WV-1904
24V AC
OUR PRICE $4495.00

DESCRIPTION

Panasonic Video Systems supplements its outstanding line of CCTV products with the arrival of the WV-1900 series of low light level cameras, designed both for security and other specialized video applications where minimum of light is required or desirable. The WV-1900 and its 24 volt AC low voltage counterpart, the WV-1904, are Lunar Lite cameras which provide useable video pictures under moonlight conditions. The WV-1900 series cameras incorporate sensitive 1" Newvicon® tubes with fiber optics and an image intensifier which ensures high performance in minimum lighting conditions.

The WV-1900 series cameras also feature standard EIA RS-170 sync with LSI circuitry, various automatic control circuits for quality adjustment-free pictures; genlock capability through composite sync or composite video signal; Auto-Black/AGC circuitries for accurately clear pictures in poor contrast situation; automatic internal/external sync switching, built-in protection circuitry for the tube and image intensifier; automatic circuitry control for the lens iris and both the video and image intensifier gain; and a rugged die-cast chassis to protect the cameras from rough handing in normal usage. The WV-1900 series cameras are available in either standard line voltage 120 volt AC versions or in low voltage 24 volt AC models, which affords power requirement versatility. These new additions to the Panasonic CCTV product line are important advances in low light level camera technology. Besides security implementation, other applications include: certain industrial instrumentation applications; uses in mines and tunnels; at docks or in harbors at night; various medical lab operations involving TV microscopy; engineering lab procedures requiring a minimum of light; and any security applications where additional expensive lighting is prohibitive. The WV-1900 series of Lunar Lite cameras are the obvious choices for those desiring quality video in minimum illumination conditions.

PANASONIC COLOR SURVEILLANCE CAMERAS (BODY ONLY) *WITHOUT LENS*

MODEL WV-4050

OUR PRICE $899.95

FEATURES
- Color camera without lens.
- ½" 3.9MHz Newvicon tube.
- Sync: 2:1 Internal Interlace.
- Horizontal resolution 270 lines at center.
- Video output: 1.0Vp-p/75 ohm BNC connector.
- Minimum illum. 1 footcandle (10 lux).
- S/N better than 46dB.
- Controls: Indoor/outdoor select switch on camera, R/B gain control (on camera and RCU, model WV-4052), auto white balance control (momentary push button on camera and RCU).
- DC 12V 0.3A.

PANASONIC SOLID-STATE CHARGES PRIMING DEVICE (CPD) CAMERA (BODY ONLY) *WITHOUT LENS*

MODEL WV-CD10

OUR PRICE $749.95

FEATURES
- Black and White.
- Body only (without lens).
- Horizontal resolution more than 280 lines at center.
- No burn in and very short lag.
- No image distortion.
- Minimum fixed pattern noise as compared to MOS image sensors.
- Compact size, lightweight.
- Rugged construction for protection against shock and vibration.
- Separate power supply.
- Use optional "WV-LA" series lenses.

PANASONIC SINGLE CABLE COMPACT CCTV CAMERA SYSTEMS *INCLUDES LENS*

MODEL WV-1600/KT1

OUR PRICE $279.95

FEATURES
- Single-cable 2/3" Vidicon Camera with 16mm., F/1.6C-mount lens, internal line lock random interlace.
- Comes with AC power Camera Control box, AC 120V, 60 Hz.
- Includes Lens.

MODEL WV-1600/KT2

OUR PRICE $279.95

FEATURES
- Single-cable 2/3" Vidicon Camera with 16mm, F/1.6C-mount lens, internal random interlace.
- Comes with DC power Camera control box, DC 12V.
- Includes Lens.

PANASONIC CPD COLOR CAMERA (BODY ONLY) WITHOUT LENS

NEW!

MODEL WV-CD120

OUR PRICE $1395.00

FEATURES
- Solid-state CPD offers extremely long-life and high reliability as compared to conventional tubes.
- No image distortion, burn-in, lag, or blooming.
- Compact, lightweight construction with protection against shock and vibration.
- Minimum fixed patter noise as compared to MOS image sensors.
- Broader dynamic range than conventional CCD image sensors.
- A Line Sequential Color Differential System is employed with a highly precise mosaic color filter on the CPD imaging area to pick-up the 4 primary colors (Green, Cyan, Magenta and Yellow).

DESCRIPTION

Panasonic complements its already outstanding line of CPD CCTV cameras with the introduction of the WV-CD120. The WV-CD120 is a quality, compact color camera that offers some of the most advanced features available today. Incorporating innovative Charged Priming Device (CPD) single-chip sensors, this camera performs superbly and offers improved maintenance-free operation. In addition, the compact design of the WV-CD120 allows it to be mounted in areas of limited space.

Applications for the WV-CD120 CPD CCTV camera are virtually endless. The WV-CD120 is perfect for use in the new field of Robotics because it does not produce image distortion like conventional cameras. This makes the WV-CD120 a highly accurate camera for scanning, measurement and observation purposes. Expanded CCTV applications also include medical, scientific, military, and general surveillance operations.

PANASONIC MINI-CCTV SYSTEM

The Economical "Do-It-Yourself" Surveillance system includes:
Two WV-80 Vidicon Cameras with 16mm, F 1.6 lens, 9"(meas. diag.) monochrome monitor with built-in sequential switcher and camera mounting brackets.

MODEL **WV-80/KT2**

OUR PRICE **$689.95**

- **MOUNTING BRACKETS INCLUDED**
- **SEQUENTIAL SWITCHER BUILT IN**

DESCRIPTION

Virtually Endless Applications The Panasonic Mini-CCTV System can be used for virtually unlimited applications. In the home, you can monitor from your kitchen your child's bedroom, the front door, or just about any area which could use surveillance. The basic system features two CCTV cameras, but for more demanding applications you can expand the system to six cameras.

Other important applications include convenience stores, gift shops, or any retail outlet that could use CCTV system is also perfect for light industry, warehousing and educational applications. Thanks to its design, this system requires a minimum of wiring, and its main monitor unit is easy to use and offers high quality performance.

Design Your Own System The Mini-CCTV System is simple to install and easy to operate. Just attach the camera mounting bracket to the wall or ceiling, aim the camera and focus. A single coaxial cable between the camera and the monitor carries the video signal from the camera and supplies it with power.

The system is completely versatile for it will connect with alarms, intercoms, up to six cameras (with optional adaptor) and a time lapse recorder.

FEATURES for the CCTV Camera WV-80

- Single cable connection.
- Cable distance from camera to monitor can be extended up to 2640 ft. (with proper cable).
- Camera uses BNC connector.
- Automatic light compensator allows use under broad variety of lighting conditions.
- Excellent picture quality with horizontal resolution of 500 lines.
- Compact, lightweight and handsomely styled.
- 2/3" high sensitivity pick-up tube with minimum illumination of only 1 footcandle.

CCTV Monitor

- As many as three cameras can be connected to one monitor/switcher unit.
- Video output displays each camera in sequence or any camera manually selected.
- Monitor has a 9" (mea. dia.) monochrome screen.
- Sequential switching interval manually adjustable from 1 to 60 seconds.
- Inputs for three monitor controls: intercom, alarm sensor and switch.
- Built-in camera/monitor protection circuit.
- Alarm control output for warning buzzer or chime.
- Alarm period manually adjustable from 1 to 30 seconds.

Additional Cameras
model WV-80.....$169.95 each
Comes with Wall Mount

OPTIONAL ACCESSORIES

Camera Extension Unit model WV-83.....$250.00
Remote Control Box model WV-438.....$125.00
Panning Head model WV-435.....$110.00
Weather-proof Housing WV-95.....$125.00
Wide Angle Lens Adaptor model VZ-ML10 (Picture Angle without VZ-ML10P H-30°, V-23°. With VZ-ML10P H-57°, V-44°).....$40.00

CHANNELPLUS MULTIPLEXER

Now Your Video Sources Can Have Their Own Channels On All Your TVs For Home, Hospitals, Hotels, Motels or Any Multiple TV Systems

MODEL **H-1V**

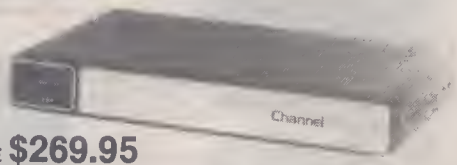
OUR PRICE **$129.95**

MODEL **H-2V**

OUR PRICE **$199.95**

MODEL **H-3V** OUR PRICE **$269.95**

MODEL **HRV** OUR PRICE **$239.95**

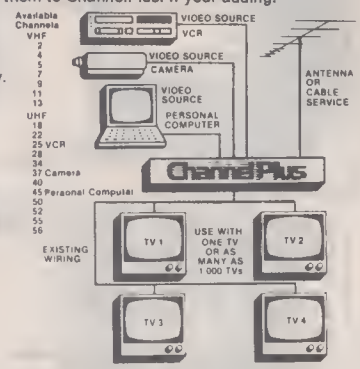


DESCRIPTION

ChannelPlus actually adds new channels right to your existing antenna or cable wires. Take each of your video sources—VCRs, video games, video disks, home computers, color and black & white cameras, satellite dish, etc., and connect them to ChannelPlus. If your adding:

1 Video Source use model **H-1V**
2 Video Sources use model **H-2V**
3 Video Sources use model **H-3V**
1 Video Source & 1 RF (Pay TV) use model **HRV**.

With ChannelPlus, there's no loss of video quality. Channel Plus uses the latest high frequency technology to solve video distribution problems that switchers can't.



FEATURES

- **Channel selection at every TV location.** The individual tuner of each TV is used to make program selections.
- **Use your remote control.** With ChannelPlus, you can use the remote control on your TV or VCR to switch between all broadcast and ChannelPlus channels.
- **Easy to use.** It's as easy to install as a video splitter.
- **Hook up as many video sources and TVs as you wish.** Depending on the model you order, you're not just limited to 2 TVs and 1 VCR as with most switch boxes.

PANASONIC CCTV CAMERAS

MODEL **WV-140**
120V AC Operation

OUR PRICE **$139.95** **NEW!**

MODEL **WV-144**
24V AC Operation

OUR PRICE **$139.95**

FEATURES

- A choice of models WV-140 - 120V AC operation or WV-144 - 24V AC operation.
- Compact and lightweight design for versatile mounting.
- Highly sensitive mesh 1/2" Vidicon pickup tubes in both cameras.
- Internal or line locked sync system.
- Minimum illumination of one foot-candle (10 lux) with F1.4 lens.
- Automatic light compensation circuit allows use under a wide variety of lighting conditions.
- Mechanical focus externally adjustable.
- Top or bottom mounting flexibility.
- Standard C-mount allows for use of interchangeable lenses.
- White clip circuit.

DESCRIPTION

The Panasonic WV-140 and WV-144 black and white CCTV cameras have been specifically designed to provide reliable, cost effective operation without compromising on performance quality. The Highly sensitive 1/2" separate mesh Vidicon tubes that are incorporated in these cameras offer a minimum illumination of only one footcandle so they perform extremely well under most lighting conditions. In addition, both cameras offer more than 500 lines of horizontal resolution for highly detailed image reproduction. And, the WV-140, and WV-144 can be easily installed. Reliability is key factor when purchasing CCTV cameras. The WV-140 and WV-144 black and white CCTV cameras are the result of extensive research and development on behalf of Panasonic to provide high quality CCTV systems components.

SANYO HIGH TECHNOLOGY CCV CAMERA, 12 VDC

MODEL **VDC-3800**
REG. $899.00

OUR PRICE **$569.95** **NEW!**

FEATURES

- 2/3" image device.
- Low power consumption.
- All solid state camera — including image device.
- Built-in Sanyo original frame transfer CCD image device.
- No interference from magnetic or electrostatic field.
- High performance — 420 lines horizontal resolution with no image burn.
- Small lightweight camera for applications where space is limited.
- Uses standard "C" mount lens.

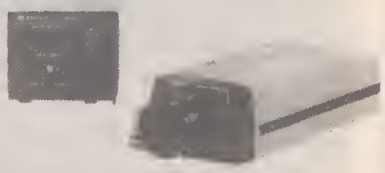
DESCRIPTION

Compact CCD image device camera. Completely solid state, high resolution, 2:1 interlace, external synchronization, suitable for use in all CCTV applications.

SANYO COLOR CCV CAMERA WITH CONTROL MODULE

MODEL **VCC-3700**
REG. $$990.00

OUR PRICE **$699.95** **NEW!**



FEATURES

- High-performance 2/3" newcosvicon tube.
- 10 lux minimum illumination requirement.
- NTSC compatible video output.
- Two piece system with built-in cable equalization.
- External sync input connector.
- White balance adjustment.
- C-mount lens interchangeability.

DESCRIPTION

Today's rapidly changing commercial and industrial enviroment has made security maintenance and monitoring extremely critical. Sanyo is pleased to introduce an all-new video camera geared to meet a broad range of applications. The VCC-3700 has been designed as a two-piece unit to keep camera size small and performance high. The camera unit itself can be mounted up to a quarter mile from the control module, providing added flexibility. This exceptionally compact camera also offers top or bottom mounting capability and a minimum illumination requirement of only 10 lux.

HITACHI 9" B&W MONITOR

MODEL VM-906A

OUR PRICE $233.75

DESCRIPTION

9" B&W Solid State monitor with high resolution of 700 lines; Small (8.6"w x 8.6"h x 9.2"d) and lightweight (14.3 lbs.), two units fit in standard 19" rack with optional rack mount; Deflection linearity is less than 1%; DC restoration switch; Built-in 75 ohm termination switch for loop through; Brightness, Contrast, Vertical Hold, Horizontal Hold, Power On/Off; Composite video input; UHF connector; 117v/60Hz.

MODEL VM-910

OUR PRICE $179.95

DESCRIPTION

9" B&W Solid State monitor with 500 lines resolution. Same size as VM-906A (8.6"w x 8.6"h x 9.2"d) and lightweight (13.2 lbs.), two units fit in standard 19" rack with optional rack mount; Linear deflection less than 2%; Other specs similar to VM-906A.

MODEL VM-900 OUR PRICE $129.95

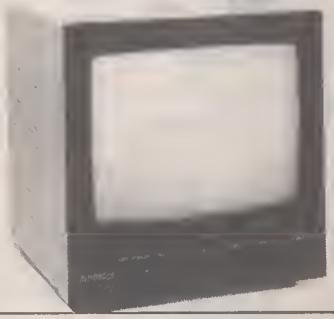
DESCRIPTION

B&W Solid State minitor with 500 lines resolution; Portable (9.6"w x 9.2"h x 9.3"d) and lightweight (13.5 lbs.) Deflection linearity of less than 2%. Other specs similar to VM-906A.

HITACHI 12" B&W MONITOR

MODEL VM-129

OUR PRICE $297.50



DESCRIPTION

12" B&W Solid State monitor with high resolution of 700 lines; Deflection linearity of less than 1%; Built-in 75ohm termination switch; DC restoration; External sync operation modification available; Composite video, negative sync, UHF connector; Brightness, Contrast, Vertical Hold, Horizontal Hold, Power Off/On; (12.5"w x 11.2"h x 12.4"d) and weighing 22 lbs.; 117v/60Hz. Optional rack mount available.

HITACHI 17" B&W MONITOR

MODEL VM-173

OUR PRICE $325.00

DESCRIPTION

17" B&W Solid State monitor with high resolution of 700 lines; Deflection linearity of less than 1%; Built-in 75 ohm termination switch; DC restoration; External sync operation modification available; Composite video, negative sync, UHF connector; Brightness, Contrast, Vertical Hold, Horizontal Hold, Power Off/On; (15.9"w x 15.2"h x 11.5"d) and weighing 37.5 lbs.; 17v/60Hz. Optional rack mount available.

HITACHI 13"COLOR DISPLAY MONITOR

NEW!

For Video Equipment & Personal Computers With NTSC Output Signal

MODEL CM-141

OUR PRICE $179.95

DESCRIPTION

Hitachi's CM-141 is an excellent color monitor unit for video equipment and personal computers with the NTSC output signal. The cabinet is made of high impact plastic & color is metallic silver.

SPECIFICATIONS

Color Display Tube (CRT): 13 inch (33 cm), 90°, in-line, 370F VB22. **Power Input:** AC 120V ± 10%, 60Hz. **Power Consumption:** 73W. **Video Input:** Ve 1.0Vp-p (sync. neg), 75 ohms unbalanced. **Audio Input:** 0.5V r.m.s., 1.8k ohms. **Audio Output:** 2W. **Scanning Frequency:** Horizontal: 15.75 kHz, Vertical: 60Hz. **Display Size:** 11.2"W x 8.4"H. **Display Time:** Horizontal: 53.5u sec., Vertical: 15.7m sec. **Retrace Time:** Horizontal: 10.0u sec. max., Vertical: 1.0m sec. max. **Resolution:** Horizontal: 280 TV lines, Vertical: 300 TV lines. **Misconvergence:** Center: 0.8mm max., Corner: 1.2mm max. **Recommended Display Character Number:** 768 characters (32 characters x 24 rows on 8x8 dot matrix). **Control:** Contrast, Tint, Color, Brightness, V.hold; Volume. **Environment:** Temperature approx. 0° - 40°C., Humidity approx. 20 - 80%. **Dimensions:** 17.3"W x 15"H x 15.4"D. **Weight (net):** 25.8 lbs.

HITACHI LOW LIGHT NEWVICON TYPE CCTV CAMERAS

NEW!

MODEL HV-725N

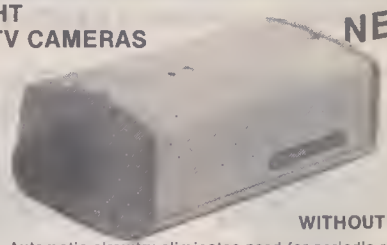
OUR PRICE $495.00

Commercial AC power input

MODEL HV-726N

OUR PRICE $495.00

24V AC power unit



WITHOUT LENS

FEATURES

- Automatic Beam Control(ABC)—Automatic circuitry eliminates need for periodic readjustment of beam throughout life of camera tube.
- A white suppressor circuit ensures faithful reproduction on the video monitor, even for subjects with strong contrast.
- Camera mounting screws are provided at the top and bottom of the camera, facilitating mounting of the camera.
- Switchover to external synchronization takes place automatically when an external drive signal is input, hence no switch operation is necessary.
- These cameras are high sensitivity type for a Newvicon* tube, to suit the particular applications and place where it is to be used. They employ a Line-lock, 2:1 interlace scanning system, providing a more stable and clearer image.
- Standard Composition: Camera, EE lens connecting clamp 2.5d, 3.5d (mm), operation manual.

*Trademark

HITACHI CCTV CAMERA

MODEL KP-120

OUR PRICE $895.00

WITHOUT LENS

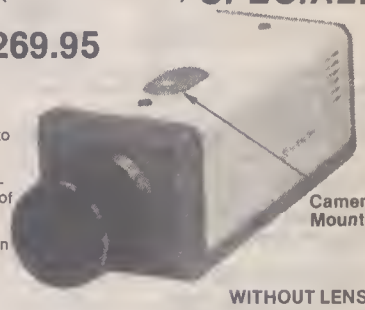
DESCRIPTION

Ultra-small black and white CCTV camera using solid state MOS pick-up device instead of tube, small (2.2" x 1.7" x 4.6") and lightweight (1.6 lbs.); Long life and reliability due to 50% fewer parts; MOS imaging device eliminates deflection, distortion, and sticking, plus minimizes lag; Resolution of 240 lines and S/N 52dB; C mount with power for auto iris len; 2:1 interlace; externally driveable; Power through AC adaptor, camera uses 9 volts.

HITACHI CCTV CAMERA (VIDICON TUBE) WITH MULTIPLEX UNIT

SPECIAL!

MODEL HV-240 OUR PRICE $269.95



WITHOUT LENS

FEATURES

- By using a single video cable system it has been made possible to connect the camera to the multiplex unit with only a single coaxial cable. It is not necessary to perform commercial AC power wiring at the location where the camera will be installed. The maximum length of the coaxial cabel is 420m (1,380 feet) in the case of the RG-59U and 700m (2,300 feet) in the case of the RG-11U.
- By using a 2/3-inch separate mesh vidicon tube and a 2:1 interlace system with a crystal oscillator, high sensitivity, high resolution (550 lines or better in the horizontal center) picture is obtained.
- Since the ASC circuit is built-in, a stable video signal is obtained when illumination on the subject varies into the range or 10 to 100,000 lux.
- A number of different 2/3-inch and 1-inch C mount type lenses can be used.

DESCRIPTION

Easy system expansion. A single video cable connects the camera and the multiple units for easy installation and use. A single coaxial cable is used to connect the camera to the multiplex unit. This cable not only provides the DC power required by the camera from athe multiples unit, but provides connections to the video signal of the camera as well. It is thus not necessary to provide power supply wiring at the camera site.

It is simple to add cameras to the Remote Eye. Systems range from one-camera, one-monitor configuration to four-camera systems which can monitor a number of locations from the centralized location. The addition of cameras and use of either centralized or distributed monitoring systems allows the Remote Eye system to be configured to suit the particular monitoring requirement with just the capabilities needed.

HITACHI CCTV CAMERAS

MODEL HV-720

OUR PRICE $139.95

MODEL HV-721

OUR PRICE $139.95

INCLUDES LENS

FEATURES

- Owing to the use of an automatic sensitivity adjusting circuit, the only necessary camera operation is focusing.
- A white suppressor circuit ensures faithful reproduction on the video monitor, even for subjects with strong contrast.
- Camera mounting screws are provided at the top and bottom of the camera, facilitating mounting of the camera.
- Switchover to external synchronization takes place automatically when an external drive signal is input, hence no switch operation is necessary.

SPECIFICATIONS

- Synchronizing System: Line-lock 2:1 interlace. • Pick-up tube: Vidicon tube.
- HV-720—Power Supply input: Commerical AC power input.
- HV-721—Power Supply input: 24V AC power input.

• Optional Accessory: TC-1324 - 24 Volt transformer. . .$12.95

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

CCTV EQUIPMENT

PANASONIC PANNING & PAN/TILT MECHANISM HEADS

MODEL WV-7220B
OUR PRICE **$179.95**

MODEL WV-7260
OUR PRICE **$795.00** **NEW!**

MODEL WV-7230B
OUR PRICE **$495.00**

PANASONIC REMOTE CONTROL UNITS **NEW!**

MODEL WV-7320
OUR PRICE **$135.00**

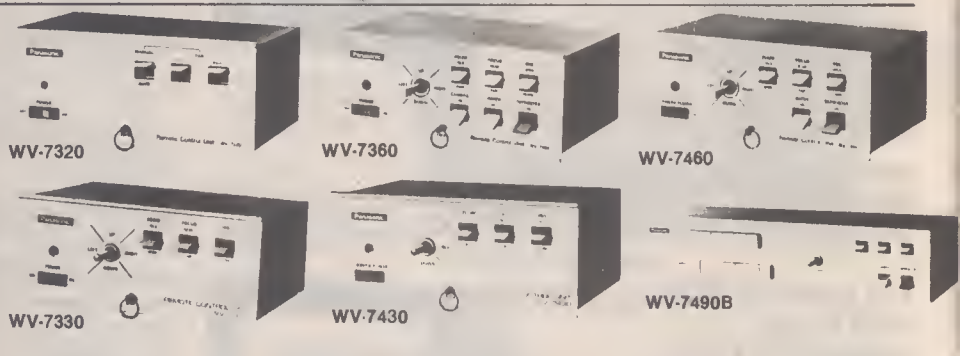
MODEL WV-7360
OUR PRICE **$325.00**

MODEL WV-7330
OUR PRICE **$275.00**

MODEL WV-7460
OUR PRICE **$175.00**

MODEL WV-7430
OUR PRICE **$125.00**

MODEL WV-7490B
OUR PRICE **$375.00**



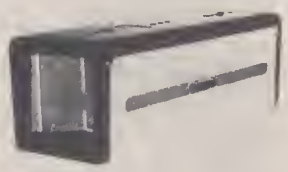
PANNING AND PAN/TILT SYSTEMS

SYSTEM	MODEL / Panning & Pan/Tilt mechanism head	RELAY BOX	REMOTE CONTROL UNIT	NOTES
A - Indoor panning system	WV-7220B	—	WV-7320	
B - Indoor pan/tilt system	WV-7230B	—	WV-7330	
	WV-7230B	WV-7435	WV-7430	Long distance control
	WV-7230B	WV-7435	WV-7490B	Multi control
C - Outdoor pan/tilt system	WV-7260	—	WV-7360	
	WV-7260	WV-7465	WV-7460	Long distance control
	WV-7260	WV-7465	WV-7490B	Multi control

PANASONIC DUSTPROOF INDOOR HOUSING

MODEL WV-7120
OUR PRICE **$59.95**
Dimensions: 5-5/16"W x 14"D x 3-1/4"H.

MODEL WV-7130
OUR PRICE **$99.95**
Dimensions: 5-7/6"W x 20-11/16"D x 7-1/6"H.



PANASONIC OUTDOOR HOUSING

CONTAINS THERMOSTATICALLY CONTROLLED HEATER AND FAN.

MODEL WV-7150B
OUR PRICE **$349.95**
Dimensions: 7-1/2"W x 22-7/16"D x 6-11/16"H.

WEATHERPROOF OUTDOOR HOUSING

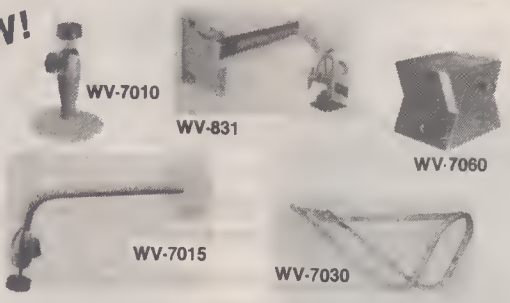
BUILT-IN DEFROSTER

MODEL WV-7160B OUR PRICE **$449.95** **Dimensions:** 8-1/4"W x 27-9/16"D x 9-7/16"H.

PANASONIC CAMERA MOUNTING BRACKETS **NEW!**

MODEL WV-7010 OUR PRICE **$17.95**
Standard Indoor Ceiling Bracket
Holds camara with fixed focal length lans and WV-7120C housing; mounts on ceiling or stand; comes with universal head for multi-diractional viewing; holds approx. 9 lbs. max.

MODEL WV-7015 OUR PRICE **$24.95**
Standard Indoor Wall Bracket
Holds camara with fixad focal length lens and WV-7120C housing; mounts on wall; comes with universal haad for multi-directional viewing; holds approx. 9 lbs. max.



MODEL WV-831 OUR PRICE **$40.00**
Deluxe Indoor Wall/Ceiling Bracket Holds camara and housing; mounts on wall or ceiling; comas with universal head for multi-directional viewing; holds approx. 20 lbs. max.

MODEL WV-7060 OUR PRICE **$39.95**
Heavy Duty Outdoor Bracket
Holds camera and outdoor housing; mounts on stands; adjustable head tilts up to 45° from vertical in either direction; holds approx. 44 lbs. max.

MODEL WV-7030 OUR PRICE **$55.00**
Heavy Duty Indoor Wall Bracket
Designed to hold panning or pan/tilt mechanism, as wall as camera with housing; mounts on wall; holds approx. 33 lbs. max.

SPECIFICATIONS FOR ABOVE BRACKETS PLUS RECOMMENDATIONS FOR ABOVE HOUSINGS

	WV-7010	WV-7015	WV-831	WV-7030	WV-7080
Products Mounted					
Housing	WV-7120C	WV-7120C	WV-7120C, WV-7130	No	WV-7150C, WV-7160B
Pan/Tilt Mechanism	No	No	No	WV-7220B, WV-7230B	No
Mounting	Ceiling or stand	Wall	Wall or Ceiling	Wall	Stand
Mounting Head	Mullt-directional	Multi-directional	Multi-directional	Not applicalbe	Adjustable
Load Weight	9 lbs. (4 kg)	9 lbs. (4 kg)	20 lbs (9 kg)	33 lbs. (15 kg)	44 lbs. (20 kg)
Waight	0.6 lbs. (0.28 kg)	1.4 lbs. (0.63 kg)	2.2 lbs. (1 kg)	3.75 lbs. (1.7 kg)	6.5 lbs. (3 kg)

CCTV LENSES BY RCA

RCA LENSES FOR TC-1501, TC-1502, TC-2011, and TC-2012

TYPE	MODEL	DESCRIPTION	OUR PRICE
Standard	TC-1888	16mm (No Iris) Fixed	$ 20.00
Wide Angle	T-1888	6mm (No Iris) Fixed	69.95
Telephoto	V-35-1.7	35mm (No Iris) Fixed	85.00
Zoom	V-12.5-75m	12.5-75mm (No Iris) Motorized	619.00

RCA LENSES FOR TC-1501U, TC-1502U, TC-2011U, and TC-2012U, TC-5002, KP-120

TYPE	MODEL	DESCRIPTION	OUR PRICE
Standard	TC-1616	16mm (Auto Iris) Fixed	$169.00
Wide Angle	TC-1810	6mm (Auto Iris) Fixed	225.00
Telephoto	TC-1624	25mm (Auto Iris) Fixed	199.95
Zoom	TC-1641	12.5-75mm (Auto Iris) Motorized	799.00
Zoom Control	V-100C	For Above Lenses	179.95
Zoom	TC-1846/D2	11-110mm Outdoor Zoom	1095.00
Zoom Control	V-100ZF	For Above Lenses	192.00

CCTV LENSES BY D.O. NEW!

MODEL	DESCRIPTION	FOCAL LENGTH	LENSES	APERTURE	OUR PRICE
DO-3616	Fixed Wide Angle	3.6mm	2/3"	F/1.6	$115.00
DO-613	Fixed Wide Angle	6 mm	2/3"	F/1.6	69.95
DO-1213	Fixed Wide Angle	12mm	2/3" - 1"	F/1.3	69.95
DO-1616	Normal Lens	16mm	2/3"	F/1.3	20.00
DO-2514	Normal Lens	25mm	2/3" - 1"	F/1.4	49.95
DOZ-13M	Zoom Lens	12.5-75	2/3"	F/1.6	149.95
DOH6X12.5GMD-3	Motorized Zoom with Focus and Iris	12.5-75			599.95
DOH6X12.5G-SND	Motorized Zoom with Focus and Auto Iris	12.5-75			699.95
PH-935	Pin Hole Lens	9.5mm	2/3"	F/3.5	199.95
AI-9	Auto Iris Fixed Lens	6.5mm	2/3"		199.95
AI-16	Auto Iris Fixed Lens	16mm	2/3"		169.95

CCTV LENSES BY PANASONIC NEW!

FIXED-IRIS LENSES

MODEL	DESCRIPTION	OUR PRICE
WV-LM16	Standard lens 16mm, f/1.6 fixed iris	$20.00
WV-LM12/2	Standard lens 12mm, f/1.4 fixed iris	90.00

MANUAL-IRIS LENSES

MODEL	DESCRIPTION	OUR PRICE
MN-516	Telephoto lens 50 mm, f/1.6 with iris	$60.00
MN-615	Wide angle lens 6.5mm, f/1.5 with iris	95.00

MOTORIZED ZOOM LENS

MODEL	DESCRIPTION	OUR PRICE
C10X16ASND	For 1" camera, Focal length 16 to 160 mm (10X) Auto-iris, with focus and zoom control CZ-50C	$3200.00
C10X16AMND	For 1" camera, Focal length 16 to 160 mm (10X) Iris, focus and zoom control CZ-40C	3000.00

WIDE ANGLE LENS ADAPTOR

MODEL	DESCRIPTION	OUR PRICE
VZ-ML10	For WV-LM16	$ 40.00
WV-CL51	For WV-LM12/2	160.00

AUTO-IRIS LENSES

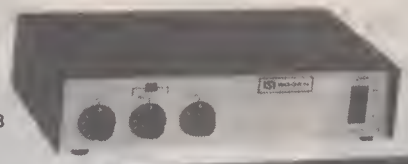
MODEL	DESCRIPTION	OUR PRICE
WV-LA16A	Standard lens 16mm, f/1.4	$235.00
WV-LA6A	Wide angle lens 6mm, f/1.4	270.00
WV-LA25A	Telephoto lens 25mm, f/1.4	245.00
WV-LA50A	Telephoto lens 50mm, f/1.6	245.00
KF-LA16A	Standard lens 16mm, f/1.4	320.00
KF-LA6A	Wide angle lens 6mm, f/1.4	350.00
KF-LA25A	Telephoto lens 25mm, f/1.4	340.00
KF-LA50A	Telephoto lens 50mm, f/1.8	340.00
CF-25BSND	Standard lens 25mm, f/1.4	450.00
CF-125ASND	Wide angle lens 12.5mm, f/1.4	450.00
CF-50BSND	Telephoto lens 50 mm, f/1.4	475.00

RECOMMENDED LENSES FOR PANASONIC CAMERAS (Prices Listed Above)

MODEL	TUBE SIZE	LENS SUPPLIED	NORMAL LENS	WIDE ANGLE LENS	WIDE ANGLE LENS ADAPTOR	TELEPHOTO LENS	LONG TELE. PHOTO LENS
WV-140/144	1/2"	No	WV-LM 12/2, 12mm	MN-815, 6.5mm	WV-CL51	WV-LM16, 16mm	MN-516, 50mm
WV-1410/1414	2/3"	No	WV-LM16, 16mm	MN-815, 8.5mm	VZ-ML10	N/A	MN-516, 50mm
WV-1460/1464	2/3"	No	WV-LA16A, 16mm	WV-LA8A, 8mm	N/A	WV-LA25A, 25mm	WV-LA50A, 50mm
WV-1500/1504	2/3"	Yes, Standard	Supplied, 16mm	MN-815, 6.5mm	VZ-ML10	N/A	MN-516, 50mm
WV-1550/1554	2/3"	No	WV-LA16A, 16mm	WV-LA6A, 8mm	N/A	WV-LA25A, 25mm	WV-LA50A, 50mm
WV-1600	2/3"	Yes, Standard	Supplied, 16mm	MN-815, 6.5mm	VZ-ML10	N/A	MN-518, 50mm
WV-1600/1604	1"	No	CF25B, 25mm	CF12.5A, 12.5mm	N/A	CF-50B, 50mm	N/A
WV-1650/1654	1"	No	CF25BSND, 25mm	CF125ASND, 12.5mm	N/A	CF50BSND, 50mm	N/A
WV-1900/1904	1"	No	CF25BSND, 25mm	CF125ASND, 12.5mm	N/A	CF50BSND, 50mm	N/A
WV-CD10	Solid State Element	No	WV-LA16A, 16mm	WV-LA8A, 6mm	N/A	WV-LA25A, 25mm	WV-LA50A, 50mm

AMPLIFYING EQUIPMENT

BOGEN® C SERIES P.A. AMPLIFIERS RELIABILITY • VERSATILITY • ECONOMY



C-10
C-20B

MODEL C-10
OUR PRICE $129.95
Power Output (RMS @ 1000 Hz): 10 w., UL & CSA Listed

MODEL C-35B
OUR PRICE $209.95
Power Output (RMS @ 1000 Hz): 35 w., UL & CSA Listings Pending

MODEL C-20B
OUR PRICE $149.95
Power Output (RMS @ 1000 Hz): 20 w., UL & CSA Listed

MODEL C-60B
OUR PRICE $249.95
Power Output (RMS @ 1000 Hz): 60 w., UL & CSA Listings Pending

MODEL C-100B
OUR PRICE $299.95
Power Output (RMS @ 1000 Hz): 100 w., UL & CSA Listings Pending

C-60B

FEATURES
- C-100B, C-60B, C-35B: simultaneous mixing of 3 input signals; two high- or low-impedence (unbalanced) microphones and a tuner, tape recorder or phonograph, or one microphone and two auxiliary inputs. (C-20A, C-10 can mix 1 high-impedance mic. and 1 aux. input.)
- Outputs include balanced constant voltage 25 V. center-tapped and 70 V. as well as standard speaker impedances. C-100B, C-60B, C-35B have outputs for tape or booster amplifier and 500/600 ohm zero level line (with optional WMT-1 transformer.)
- Two similar amplifiers' outputs can be combined into one load for effective doubling of available power.
- Built-in MIC precedence over AUX 2 channel in C-100B, C-60B, C-35B. (Requires SPST switch.)
- Active mixing in C-100B, C-60B, C-35B.
- All microphone inputs equipped with filters to protect against RF interference.
- All-silicon solid state. Advanced complementary transistor circuitry to assure highest reliability of power transistors.
- Special circuitry protects the amplifiers at both inputs and outputs against accidental misuse, overload or short circuit.
- Circuit breakers.
- AC convenience outlet, except C-10.
- Accessories for extremely flexible operation, including WMK-1 wall-mounting cabinet for C-20A or C-10 as shown.

DESCRIPTION
One of the most widely used lines of P.A. amplifiers, the economical "C" series is better than ever! Retaining the features that have made them so versatile and reliable, the new C-100B, C-60B and C-35B incorporate microphone precedence, input connections for low-impedence as well as high-impedance microphones, a switchable input permitting choice of either 2 mic./1 aux. or 1 mic./2 aux. operation, and active mixing for minimum interaction between controls. Advanced, all-silicon, solid-state design enables the "C" series amplifiers to operate continuously at extremes of temperature and greatly increases their overall stability and useful life. They are the logical choice for maximum value in P.A. amplifiers.

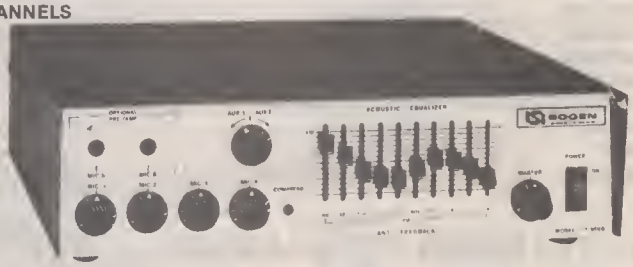
WALL MOUNTING CABINET
MODEL WMK-1
OUR PRICE
$114.90

200 OHM PLUG IN TRANSFORMER
MODEL TM-200
OUR PRICE
$19.95

BOGEN® ACOUSTA-MASTER® CT SERIES P.A. AMPLIFIERS
BUILT-IN ANTI-FEEDBACK EQUALIZER • BUILT-IN ELECTRONIC COMPRESSOR 4 MIC CHANNELS

MODEL CT-60B
OUR PRICE $499.95

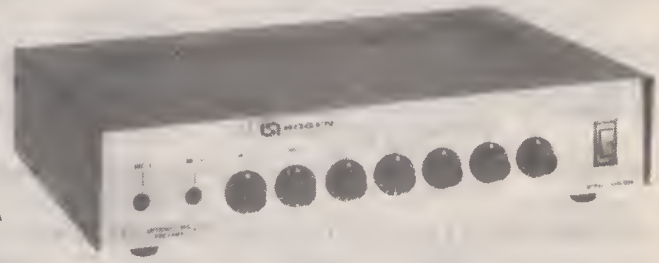
MODEL CT-100B
OUR PRICE $549.95



FEATURES
- Simultaneous mixing of 5 input signals (expandable to 7 with optional accessory PMM-2B); four microphones (expandable to six) and a tuner, tape/cassette player, or phonograph with a ceramic cartridge.
- Ten frequency equalizer filters (offering 12dB boost and/or 12dB cut); slide controls, with detented flat positions, provide unique anti-feedback and tone-control circuit.
- Balanced LO-Z, transformer-isolated mic inputs, convertible to HI-Z inputs by means of jumpers.
- Professional 3-pin female XLR type microphone connectors.
- Built-in phantom supply for condenser microphones.
- Volume of the AUX and four MIC channels (expandable to five) can be controlled from a remote point by means of accessory RVC-2B's (one for each channel).
- Built-in microphone precedence: AUX and other MIC channels can be muted for special announcements. (Requires SPST switch.)
- Built-in electronic compressor (screwdriver adjustable through front panel) assures constant output for a wide variation in input level.
- PMM-2B, optional front-panel-mounted preamplifier, adds two balanced low-impedance MIC inputs (built-in mic input transformers), convertible to high-impedance inputs (one with built-in circuitry for MIC precedence or remote control).
- 500/600 ohm telephone line can be fed either to input or from output by use of accessory WMT-1 transformer. Outputs include tape, tape/booster, constant voltage balanced 25 V center-tapped and 70 V, 4 (CT-100B), 6-6, 16 ohms.
- Two similar amplifiers can be bridged to double the number of inputs.
- Two similar amplifiers' outputs can be combined into one load for effective doubling of available power.
- All solid state; IC's, silicon transistors and diodes used exclusively.
- Special circuitry protects the amplifiers at both inputs and outputs against accidental misuse, overload or short circuit.
- Lighted power switch.
- AC convenience outlet.
- Accessories for extremely flexible operation.

BOGEN® CHS-B SERIES P.A. AMPLIFIERS BALANCE LOW-Z
INPUTS • HIGH FLEXIBILITY • POPULAR PRICE

MODEL CHS-35B
OUR PRICE $279.95
Power Output (RMS @ 1000 Hz): 35 w., UL & CSA Listings Pending



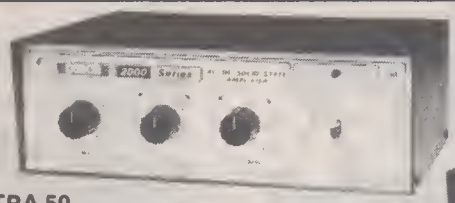
MODEL CHS-60B
OUR PRICE $329.95
Power Output (RMS @ 1000 Hz): 60 w., UL & CSA Listings Pending

MODEL CHS-100B
OUR PRICE $369.95
Power Output (RMS @ 1000 Hz): 100 w., UL & CSA Listings Pending

FEATURES
- Simultaneous mixing of 4 inputs signals (expandable to 6); two microphones and two high level signals.
- Built-in microphone input transformers for low-impedance balanced microphones, convertible to high impedence inputs by means of jumpers.
- Professional 3-pin female XLR microphone connectors.
- Built-in phantom supply for condenser microphones.
- Built-in microphone precedence: two aux. channels, one mic. channel can be muted for special announcements. (Requires SPST switch.)
- One mic. can be remotely controlled, using RVC-2B remote controller.
- Optional front panel-mounting pre-amplifier, PMM-2B, adds 2 more balanced low-impedance mic. inputs (one with built-in circuitry for mic. precedence or remote control).
- Two separate aux. inputs, with 2 separate controls, and provision for remote control.
- Outputs for tape recorder, booster amplifier, balanced constant voltage 25 V. and 70 V., plus low-impedence output transformer taps.
- Two similar amplifiers' outputs can be combined into one load for effective doubling of available power.
- Lighted power switch.
- in and out connectors for acoustic equalizer or reverb unit.
- All Solid State; silicon transistors and diodes used exclusively.
- Protection against circuit damage caused by accidental shorting or disconnecting of loudspeaker lines.
- Circuit breakers.
- Thermal breaker protects out transistors.
- Accessories for extremely flexible operation.

DESCRIPTION
The new CHS-B series amplifiers combine advanced operating features with conservative design, utilizing integrated circuits and silicon transistors and diods. They offer outstanding performance at surprisingly moderate cost. Two input channels are provided for low- impedance balanced microphones, convertible to high-impedance. One mic. channel has built-in circuitry for precedence or remote control. An optional accessory, PMM-2B, designed to mount on the front panel, provides two additional low-impedance balanced microphone channels. Two auxiliary channels, with separate controls, are provided for a tuner, tape-cassette player, or phonograph with ceramic cartridge.

PASO TR SERIES PA AMPLIFIERS



TR-20

MODEL TR-20
OUR PRICES $124.95
Power Output 20W RMS · 1 Microphone Input

MODEL TR-50
OUR PRICE $229.95
Power Output 50W RMS · 2 Microphone Inputs

MODEL TRA-50
OUR PRICE $279.95
Power Output 50W RMS · 4 Microphone Inputs

MODEL TR-100
OUR PRICE $299.95
Power Output 100W RMS · 2 Microphone Inputs

MODEL TRA-100
OUR PRICE $329.95
Power Output 100W RMS · 4 Microphone Inputs

TRA-50 TRA-100

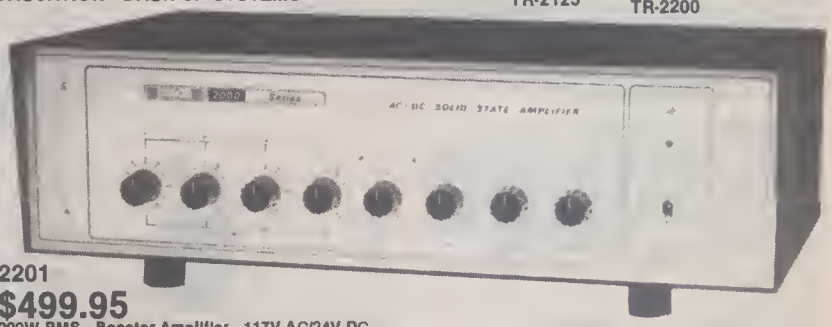
FEATURES
- TR-50 and TR-100 simultaneous mixing of 3 input signals; two low impedance microphones and a tuner or tape recorder/player. TR-20 can mix 1 microphone low impedance and 1 aux. input.
- TRA-50 and TRA-100 simultaneous mixing of 5 input signals; four low impedance microphones and a tuner or tape recorder/player.
- Speaker outputs include 4-8-16 ohms and 25 and 70 Volt constant voltage lines. Booster or tape out.
- Built-in microphone precedance over Aux. channel (Music Muting). Transistor logic provides smooth, transients-free switching:
- Telephone line input with optional TM-4 balanced 600 ohms line transformer (Plugs inside unit). Allows paging from telephone system.
- Input/Output for external equalizer. (Except model TR-20) Allows equalization of Mic. inputs with optional equalize.
- Microphone inputs accept professional 3 pin XLR connector. Mic. inputs can be low impedance balanced (250 ohms) with optional TM-3 transformer (One required with each input).
- Switchable Low-cut filter on each Mic. input (Prevents feedback howling). AC auxiliary outlet. Built-in 12 Volts DC power supply for accessories. (Except TR-20)
- Individual volume control on all inputs. Separate bass, treble and master volume controls are provided. Except TR-20 with has tone control only.

DESCRIPTION
A continuous duty PA Amplifier series engineered for paging systems, music distribution systems, public address, telephone interconnect systems and general purpose audio applications. TR SERIES for TOTAL RELIABILITY combines advanced solid state design with heavy-duty components electronically protected against overloads. TR SERIES will provide years of reliable service with the dependability expected from a modern amplifier.

PASO 2000 SERIES AC-DC PA AMPLIFIERS

OPERATE ON AC OR BATTERY — EMERGENCY SYSTEMS · AUDIO EVACUATION · BACK UP SYSTEMS

TR-2125 TR-2200



MODEL TR-2050
OUR PRICE $249.95
Power Output 50W RMS · 2 Mic. Inputs · 117V AC/12V DC

MODEL TR-2125
OUR PRICE $399.95
Power Output 125W RMS · 4 Mic. Inputs · 117V AC/24V DC

MODEL TR-2200
OUR PRICE $599.95
Power Output 200W RMS · 4 Mic. Inputs · 117V AC/24V DC

MODEL TR-2126
OUR PRICE $349.95
Power Output 125W RMS · Booster Amplifier · 117V AC/24V DC

MODEL TR-2201
OUR PRICE $499.95
Power Output 200W RMS · Booster Amplifier · 117V AC/24V DC

(Booster Amplifiers not shown)

FEATURES
- TR-2125 and TR-2200 simultaneous mixing of 5 input signals; four low impedance microphones and a tuner or tape recorder/player. TR-2050 can mix 2 low impedance microphones and 2 Aux. inputs. Individual Volume control on all inputs plus bass, treble and master volume.
- All models have a built-in battery recharger for the stand-by battery. TR-2050 operates on 117 Volts AC and 12 Volts DC. All other models operate on 117 Volts AC or 24 Volts DC supply. All models can be Rack mounted with optional Rack mount kit.
- Speaker outputs include 4-8-16 ohms and 25 and 70 Volt constant voltage lines. Booster or tape output.
- Built-in microphone precedence over Aux. Channel (Music Muting). Input and Output for external equalizer.

DESCRIPTION
A new series of AC-DC PA Amplifiers for emergency sound systems, paging systems, audio evacuation, public address in commercial, industrial and mobile applications. The dual power supply capability makes this series ideal for applications requiring uninterrupted service in case of power failure. Switchover for AC (117 V) to DC (Battery) is automatic and without intervention. The built-in recharger automatically recharges the battery when the amplifier is operating on AC.

BOGEN® ACOUSTA-MASTER® CT SERIES IN-WALL P.A. AMPLIFIER

MODEL WMA-75 OUR PRICE $649.95

FEATURES
- Active mixing of 6 input signals, including 6 microphones. • Flush mounting. • 75 watts. • CSA listed.
- Linear action (slide) level controls. • Locking cover protects control settings. • Optional accessories for compression, remote control.

DESCRIPTION
Ideal for auditoriums, gyms, houses of worship, wherever high quality sound and in-wall, permanent mounting are desired. All controls are on recessed panel protected by hinged locking cover. WMBX-1 back box (sold separately) is used to mount WMA-75 flush-in-wall.
Accepts up to eight inputs-six low-impedance balanced or unbalanced mics and two auxiliary sources. Mic. channel 6 also accepts balanced 500/600-ohm line input directly. Front panel connectors for one mic and one aux (tape) input (as well as tape output and AC line receptacle). All level controls are linear action (slide) type. VU meter to monitor output level. All-silicon-transistor circuitry. UL listed.
Optional compressor, CMP-2 may be adjusted to limit output level or prevent overdriving. Optional REM-2 module provides gain control capability for 2 channels per module. (One RVC-2A remote volume control required per channels.) REM-2 may also be used to provide mic precedence for 2 channels. (Requires SPST switch.) Up to 3 REM-2 may be installed.
Additional capabilities for 500/600-ohm telephone or audio lines are provided by use of accessory transformer WMT-1. WMA-75 is provided with input/output link for equalization using CFC-1 Equalizer, which may be mounted in WMK-1 wall-mounting cabinet.

SPECIFICATIONS
Power Output: 75 w. @ less than 2% dist., 50-12,000 Hz; 60 w. @ less than 1%, 50-12,000 Hz. **Peak Output:** 150 w. **Regulation:** Better than 2 dB. **Frequency Response:** ± 1 1/2 dB, 20-20,000 Hz. **Input Sensitivity:** Mic., 0.3 mv. Aux., 150 mv. **Tone controls:** Bass and treble, both +6, -12 dB. **Inputs:** 6 low imp. bal. Mic. (one with front panel XLR (male) connector and one convertible to 600-ohm telephone line input); 2 Aux. high imp. (one with front panel jack); Equalization/Reverb input. **Outputs:** 70 V. and 25 V. CT bal. or unbal. line, 6 and 16 ohms; front panel Tape output; Reverb/Equalization output; Accessory front panel AC line receptacle. **Controls:** Bass, Treble, Master, 6 Mic., 2 Aux., Compressor (optional), AC power switch, Resettable circuit breaker. **Input Control Interaction:** Less than 0.2 db. **Indicators:** VU meter, Pilot lamp. **Noise Levels:** All controls down -80 dB. Aux. -70 dB. Mic. -53 dB. **Power Consumption:** 105-125 vac, 50-60 Hz, 100w. **Dimensions:** Wall Box: 21"H X 14 1/4"W X 3 3/4"D (53.3 X 36.2 X 9.5 cm) Front panel: 22"H X 15 3/4"W X (55.9 X 40.0 cm). **Finish:** Warm desert beige baked enamel. **Ship Wt.:** 34 lbs. (15.4 kg).

ACCESSORIES

WMT-1 Transformer	Our Price $19.95
WMBX-1 Back Box	Our Price $95.00
CMP-2 Compressor	Our Price $75.00
REM-2 Module	Our Price $65.00
PMM-2B Microphone preamplifier	Our Price $75.00
RVC-2B Remote volume control	Our Price $27.00

MEGAPHONES/WIRELESS MICROPHONES & ACCESSORIES

BP TRANSISTOR MEGAPHONE
MODEL MP-351

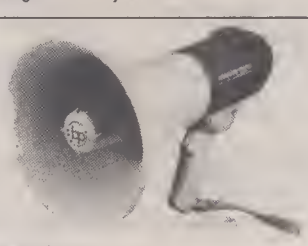
OUR PRICE $69.95

DESCRIPTION
Ideal for boats, stadiums, outdoors, etc. 10-watt rated power output. Projects your voice clearly with excellent range. Lightweight, high impact plastic. Uses 6 'C' cell batteries (not included). Speaker edges are protected by a rubberized plastic.

FEATURES
- Designation: 10W, shoulder type transistorized megaphone.
- Power output: Rated: 10W Maximum: 16W. • On/off switch.
- Power consumption: Below 16W (at rated output). • Rotary volume control.
- Effective distance: Approx. 270 ft. • Power source: 6 C size cells.
- Power duration: Approx. 6 hours. • Microphone: Anti-howling, dynamic type microphone.
- Coiled cord. • Convenient shoulder belt and mike hangers on body and belt.

BP TRANSISTOR MEGAPHONE
MODEL MP-352

OUR PRICE $59.95



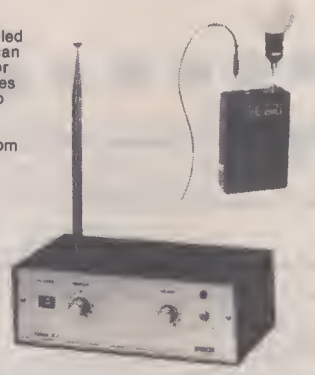
DESCRIPTION
Ideal for boats, stadiums, outdoors, etc. 10-watt rated power output. Projects your voice clearly with excellent range. Lightweight, high impact plastic. Uses 6 'C' cell batteries (not included). Speaker edges are protected by a rubberized plastic.

FEATURES
- Designation: 10W, combination-type transistorized megaphone.
- Power output: Rated: 10W Maximum: 16W. • Pistol grip.
- Power consumption: Below 16W (at rated output). • Effective distance: Approx. 750 ft.
- Power source: 6 C size cells. • Power duration: 6 hours. • On/off switch.
- Microphone: Anti-howling, dynamic type microphone (combined to the main body).
- Rotary volume control. • Easy-to-carry shoulder belt.

PASO FM WIRELESS MICROPHONE SYSTEM
MODEL MA-22/R2
REG. $669.00

OUR PRICE $489.95

DESCRIPTION
The Paso Model MA22/R2 is a complete wireless microphone system, consisting of a crystal controlled transmitter and a matching receiver. The receiver can be connected directly into an existing PA system or amplifier. The wireless system offers the advantages of total mobility, by transmitting voice via FM radio waves to the receiver, without the restrictions of cumbersome microphone wires. The wireless microphone effective range is well over 200 feet from the receiver antenna.



FEATURES
- Crystal controlled. • High stability.
- Wide frequency response. • Total mobility.
- Plug-in unidirectional electret microphone.
- Pop-filter and wind screen.
- Two positions sensitivity switch.
- Hand-held, lavalier or tie clip use.

ACCESSORIES
- Tie clip. • Microphone extension cord.
- Lavalier attachment. • Wind screen.

TECHNICAL DATA

Wireless Microphone
- Transmitting Frequency: 40.68 mHz. Crystal controlled (other frequencies up to 42 mHz available on request).
- Microphone Type: Unidirectional electret.
- Frequency Response: 40-16,000 Hz.
- Controls: 2 position sensitivity.
- Pilot Light: LED.
- Power Source: 9 volt radio battery (Mercury or alkaline type is recommended).
- Finish: Black.
- Dimensions: 97 x 24 x 66mm. (3-3/4"H x 1"D x 2-1/2"W).
- Net Weight: 140 grams (6 oz.).

Receiver
- Receiving Frequency: 40.68 mHz.
- Sensitivity: 2 uV (—30 dB S/N).
- Controls: Squelch, volume.
- Audio Output: 2 volts max.
- Antenna: Telescopic.
- External Antenna: Input provided.
- Power Source: 105-125 VAC 50-60 Hz. or 12 DC with 8 size AA batteries (mounted internally).
- Signal Control: RF meter.
- Finish: Charcoal grey.
- Dimensions: 245 x 175 x 9mm (9-1/2"W x 6-1/2"D x 3-1/2"H).
- Net Weight: 2 kg. (4.4 lbs.).

PASO AUDIOVOICE™ WIRELESS PORTABLE SOUND SYSTEM
MODEL TA-22

OUR PRICE $499.95

DESCRIPTION
Complete wireless portable sound system consisting of an amplifier/receiver unit with speaker and a seperate wireless microphone. The wireless system offers the advantages of total mobility. Built in wireless receiver. Volume and Tone controls. Shoulder strap and telescopic antenna. Operates on 6 size D batteries and 9 V. radio battery. Power output: 15 Watts — Weight: 5 lbs. — Dimensions: 12"W. 6"H. 3 1/2"D. — Range: 200 ft. — Finish: Light grey.

TOA PRE-AMPLIFIER
MODEL WT-02
REG. $158.00 **OUR PRICE $99.95**

DESCRIPTION
The WT-02 Pre-amplifier has been especially designed for use with wireless tuner units (WTA), in conjunction with 2 wireless mikes of different frequencies. Two separate connectors allow operation through any existing PA system, amplifier or tape recorder.
Designed for portable or fixed installation. Power from AC or DC. An extremely wide operational range is offered with AC. Equipped with whip antenna, external antenna connector and power on/off switch. Optional accessories include stand-mounted whip, wall or ceiling and mobile antennas. IC solid state and silicon circuitry for low noise, wide frequency response and reliable wireless performance. Complete with slide volume and squelch controls. Weighs as little as 3.9 Lbs. An easy, economical short cut into the wonderful world of wireless equipment for those who have already installed PA equipment.
*Photo shows WT-02 Pre-amplifier with 2 optional tuner units plugged in.

TOA WIRELESS TUNER UNIT
MODEL WTA
REG. $280.00

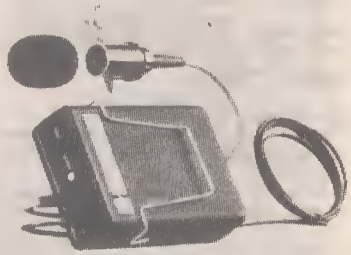
OUR PRICE $168.00

DESCRIPTION
The STA is a plug-in type wireless tuner unit designed specifically for the WT-02 pre-amplifier. With this simple plug-in addition, the meeting amplifier takes on full wireless mike versatility. When used in conjunction with the WT-02 pre-amplifier, even existing PA equipment can be quickly and economically converted to include a wireless function. Thes plug-in units employ a crystal-controlled VHF band (30 — 50 MHz) FM tuner for exceptionally stable performance under virtually any circumstances. Unlike conventional wireless equipment, drift and interference have been almost completely eliminated. Complete with FET, IC and silicon circuitry, rapid-action slide volume controls, tune-in LED indicators and squelch function. *FCC certified.*

TOA WIRELESS MICROPHONE
MODEL WME
REG. $431.00

OUR PRICE $249.95

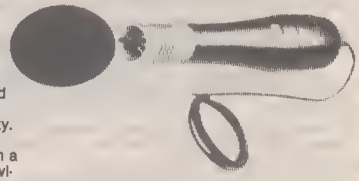
DESCRIPTION
The WME is a crystal controlled Lavalier microphone-pocket type tansmitter which also employs FET, IC and silicon circuitry. The omnidirectional electret microphone allows complete freedom of movement. The unit consists of two sections, a microphone and a transmitter. *FCC Type accepted*



TOA WIRELESS MICROPHONE
MODEL WMA
REG. $375.00

OUR PRICE $199.95

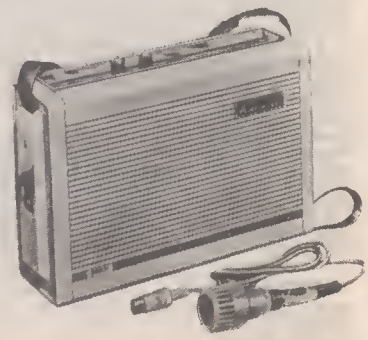
DESCRIPTION
Model WMA is a crystal controlled handheld microphone transmitter employing FET, IC and silicon circuitry for superb sound fidelity. The microphone element is of the dynamic unidirectional (Cardioid) type. Equipped with a compressor-limiter circuit and audio sensitivity control. *FCC Type accepted*



PASO AUDIOVOICE™ PORTABLE SOUND SYSTEM
Over 200 yards coverage
MODEL TA-2

OUR PRICE $125.00

DESCRIPTION
Complete portable sound system for indoor or outdoor applications. Ideally suited for guided tours, schools field trips, information to visitors, product demonstrations, passengers' traffic control, auctioneers, etc. Compact and lightweight, the Audiovoice is easy to store. Complete with unidirectional microphone and shoulder strap. Volume and Tone controls, auxiliary input for tape/tuner. Operates on 6 size D batteries. Power Output: 15 Watts — Weight: 4 lbs. Dimensions: 12"W. 6"H. 3 1/2"D. Finish: Light grey.



BOGEN® FM/AM TUNERS

MODEL TP-50

OUR PRICE $129.95

FEATURES
- AM and FM.
- Signal strength indicator.
- Center-station, precise tuning indicator.
- Muting switch.
- AFC, with defeat switch.
- Flywheel tuning.
- Solid state, compact, rugged design.
- Two output jacks permit connection to amplifier and tape recorder.
- Supplied with FM dipole antenna and built-in AM loopstick.
- Connections for external FM and AM (FM 75 ohm unbalanced or 300 ohm balanced).
- Supplied with two audio patch cords

MODEL TP-100

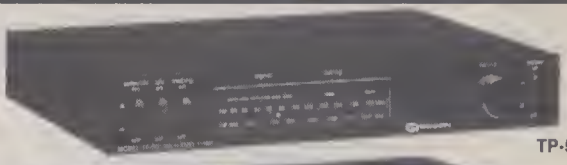
OUR PRICE $179.95

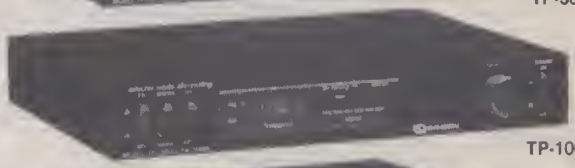
FEATURES
- AM, FM and FM-Stereo, with indicator lights.
- Digital display of station frequency.
- Signal strength indicator.
- Center-station, precise tuning indicator.
- AFC/Muting switch.
- Flywheel tuning.
- Solid state, compact, rugged design.
- Supplied with FM dipole antenna and built-in AM loopstick.
- Connections for external FM and AM antennas (FM 75 ohm unbalanced or 300 ohm balanced).
- Supplied with audio patch cords and Y-connector for mono use.

MODEL TP-200

OUR PRICE $249.95

FEATURES
- AM, FM-Stereo.
- Digital display of station frequency.
- Push buttons for 5 pre-set stations.
- Choice of automatic or manual tuning. (On "automatic", the TP-200 scans up or down the band, locks on when it detects signal.).
- Signal strength indicator.
- Frequency lock loop circuit.
- Built-in muting.
- Stereo indicator.
- Solid state, compact, rugged design.
- Supplied with FM dipole antenna and built-in AM loopstick.
- Connections for external FM and AM antennas (FM 75 ohm unbalanced or 300 ohm balanced).
- Supplied with audio patch cords and Y-connector for mono use.


TP-50


TP-100

TP-200

MODELS TP-50, TP-100, TP-200

FEATURES
- Excellent sensitivity, image rejection, frequency response. • Extremely low hum, noise, distortion.
- Easy precision tuning with visual indicators. • Only 1 3/4" high, rack-mountable.
- Solid state, high reliability circuitry. • FM-Stereo and digital frequency readout in TP-100 and TP-200.

DESCRIPTION

Bogen's new TP-50, TP-100 and TP-200 Tuners will delight all who want sensitive, precise tuning and superior signal quality. All three models provide AM and FM monophonic reception, and the TP-100 and TP-200 offer FM-Stereo reception as well. All incorporate state-of-art solid-state circuitry for dependable, continuous operation. The TP-50, TP-100 and TP-200 have FM sensitivity of 1.8, 1.8, and 1.6 microvolts, respectively. Distortion is less than 1%. Hum and noise are −60 dB. Each tuner is extremely compact and, rack-mounted with our RPK-46 kit, requires only 1 3/4" of panel height.

BOGEN® FM/AM RECEIVERS

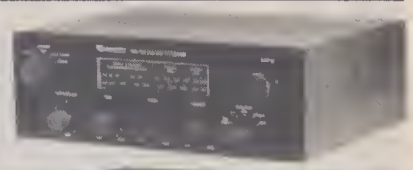
MODEL RM-150 (15W)

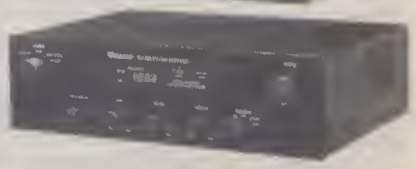
OUR PRICE $239.95

MODEL RM-350 (35W)

OUR PRICE $299.95

FEATURES
- High quality FM and AM mono broadcast reception.
- 15 or 35 watts output; extremely low distortion, hum noise.
- Easy precise tuning with signal strength and center-station indicators.
- Digital frequency readout in RM-350.
- Microphone input for paging and public address — high impedance, convertible to low impedance with TM500A or TM200A plug-in transformer, or to telephone line with WMT-1 transformer.
- Input for paging from Bogen-Phone intercoms.
- Facilities for connecting cassette tape or record player.
- Simple connection to multiple loudspeakers.
- Outputs include tape, booster amplifier, constant voltage 70 V., 4, 8, 16 ohms. Also 25 V. in RM-350.
- Built-in mic. precedence over music. Pull-out mic. control or use external SPST switch.
- All solid state: F.E.T. circuitry, silicon transistors, ICs.
- FM muting.
- Flywheel tuning.
- AC convenience outlet (switched).
- Supplied with FM dipole antenna and built-in AM loopstick.
- Connections for external FM and AM antennas (FM 75 ohm unbalanced or 300 ohm balanced).


RM-150


RM-350

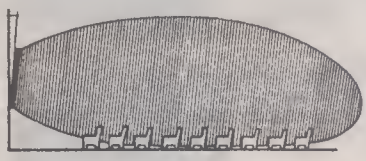
DESCRIPTION

These versatile receivers feature high quality mono broadcast reception on both the FM and AM bands. They can provide music for one to forty loudspeakers (RM-150) or up to one hundred speakers (RM-350), provided that total power consumed does not exceed 15 watts for the RM-150 or 35 watts for the RM-350.
Microphone precedence circuitry is incorporated, enabling the receiver to perform double duty as an amplifier for paging and public address. This feature may be activated by either the pull-out microphone control or by an external, single pole-single throw switch.

PASO HIGH EFFICIENCY DIRECTIONAL SOUND COLUMNS

DESCRIPTION

In many sound applications, the sound column is the only speaker system that can solve exciting acoustic problems. Imagine a speaker that is highly directional, has a full audio response and approaches the efficiency of a reflex horn:
THIS IS THE NEW PASO SOUND COLUMN!
The vibration-free, computer designed acoustic enclosure, is an exagonal metallic chamber that is perfectly tuned and matched to the internal speakers used. The power that is usually lost behind the speaker, is reversed back to the front in phase, improving the efficiency and the directional characteristics of the column. Five basic models are available with or without line transformer in the 20-40 and 80 watts rating. Wall brackets are furnished for horizontal and vertical orientation of the column. The columns can be mounted on a floor stand for portable systems by using accessory floor stand model B-18 and adaptor model S-6. THE NEW PASO SOUND COLUMNS: A FRESH NEW DIMENSION IN SOUND REINFORCEMENT SYSTEMS.



S-6

B-18

C-106/T
C-104
C-104/T
C-102
C-102/T

CONTROLLED SOUND DISPERSION

Many rooms, large or small are acoustic nightmares. At times effective voice amplification, is virtually impossible with conventional speakers due to room reverberation and echo. The Paso Sound Column speaker design provides a uniform and controlled sound coverage. The result is astonishing, Controlled Sound Dispersion concentrated at the audience. Back-row listeners enjoy front row "Presence". The Paso Sound Columns are the product of years of experience in acoustic engineering. Your assurance of the highest level of quality and performance.

ACCESSORIES

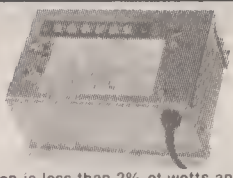
MODEL B-16 ..... **$44.95**
Collapsible floor stand. Chrome finish heavy-duty steel. Adjustable height from 32" to 57". Weight 8 lbs. Legs form a 30" circle. (Requires S-6 adaptor).

MODEL S-6 ..... **$15.00**
S-6 Stand adaptor. Permits mounting of column on stand.

MODEL No.	POWER RATING WATTS	SPEAKERS	IMPEDANCE OHMS	FREQUENCY RESPONSE	DISPERSION ANGLE HORIZ.	DISPERSION ANGLE VERT.	DIMENSIONS INCHES	SPL DB	NET WEIGHT	OUR PRICE
C-102	20 watts	Two 5" Round	8	120 14,000 Hz.	120°	40°	17"H 6¼"W. 4¼"D	114	7 lbs.	$ 89.95
C-102/T	Same as C-102. Built-in 70 Volt line transformer. Power taps: 20-10-5 watts									99.95
C-104	40 watts	Four 5" Round	16	100 14,000 Hz.	120°	30°	33"H. 6¼"W. 4¼"D	117	13 lbs.	134.95
C-104/T	Same as C-104. Built-in 70 Volt line transformer. Power taps: 40-20-10 watts									144.95
C-106/T	60 watts	Six 5" Round	—	90 14,000 Hz.	120°	20°	48"H. 6¼"W. 4¼"D	120	20 lbs.	199.95
	Built-in 70 Volt line transformer. Power taps: 60-30-15 watts									

AMPIFIERS/HORNS

BOGEN® TWO-WATT UTILITY AMPLIFIER "Music-on-Hold" makes waiting easier for callers—this dependable, economical amplifier makes M-o-H easier to provide. (It's great, too, for headphones, monitor speaker, remote line amplifier.)



MODEL GA-2 **OUR PRICE $59.95**

DESCRIPTION

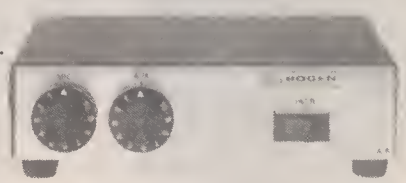
When the application calls for a rugged, reliable amplifier to feed "music-on-hold" to a telephone line, the GA-2 is the answer. Versatile as well as economical, this amplifier also can drive a remote telephone line, multiple headphones or a monitor speaker. It delivers 2 watts of power into an 8-ohm load.

The GA-2 has a high-impedance input that is available at both e phono jack and screw terminels. Only 50 mV input is required for full output. Distortion is less than 2% et wetts and drops to 0.2% at 1.5 watts, into 8 ohms. Wide frequency response end low hum and noise further contribute to ex-cellent performance. A screwdriver-adjustable volume control is provided on the chessis.

The GA-2 offers a choice of outputs, 8 ohms or 600 ohms, on screw terminals. The outputs may be used simultaneously (for example, to drive a telephone line and monitor headphones.) Sturdily constructed of galvanized steel (#20 gauge), the amplifier is compact and easily mounted on a wall or in any convenient location.

BOGEN® SIX-WATT UTILITY AMPLIFIER

"JUST WHAT THE DOCTOR ORDERED..."
and the restaurant, the church, the supermarket, anyone looking for versatility and value in a P.A. or music amplifier.



MODEL GA-6A **OUR PRICE $89.95**

FEATURES

- Rated output of 6 watts rms at not more than 2% THD from 45-15,000 Hz.
- Frequency response 30-12,000 Hz +0 dB, −3 dB.
- Two individually controlled inputs: Lo-Z balanced or unbalanced MIC, and wide-frequency AUX music input.
- Built-in mixing.
- Microphone dynamic range 46 dB.
- Internally selectable tone settings.
- 8 ohm, 25V and 70V output taps.

DESCRIPTION

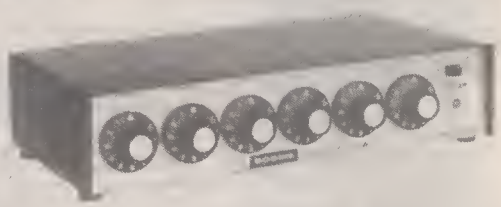
Background music in a doctor's waiting rooms... relaying fast-food restaurant orders from counter to kitchen...amplifying the service in a small church...reaching stockroom clerks for quick action...these are only a few of the applications for the GA-6A.

This versatile six-watt amplifier offers inputs for both a low-impedance microphone (balanced or unbalanced) and a program source such as a tuner or tape deck. The inputs can be mixed. Wide frequency response and low distortion assure high quality performance on both music and speech. For reliability, the GA-6A employs proven solid-state circuitry and rugged construction.

An illuminated rocker-type front panel switch controls AC power. The chassis is fabricated from sturdy cold-rolled galvanized steel. The brush-aluminum front panel is coated with protective epoxy; the cover is black vinyl-clad cold-rolled steel.

BOGEN® ACTIVE MIXER—PREAMPLIFIER

MODEL CAM **OUR PRICE $199.95**



DESCRIPTION

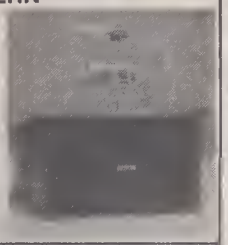
Add all the microphones you need, easily and economically. Mix and fade all inputs. Drive power amplifiers. Bogen's mixer-preamplifiers are designed for superb performance and reliability.

The CAM features ACTIVE MIXING usually found only in more expensive mixers and studio consoles. This gives you constant microphone sensitivity regardless of the number of inputs, negligible control interaction and minimum system mixing noise. Several units may be interconnected to multiply mic. inputs.

Model CAM offers four microphone inputs and one auxiliary input with individual volume controls plus master volume control. CAM mic. receptacles are professional, three-conductor XLR-type for high or low impedance balanced or unbalanced microphones, with individual impedance selector switches. UL & CSA listed.

PASO LEKTRON SERIES® SOUND LECTERN

Table Top Sound Lectern with Reading Light for Audiences up to 2000



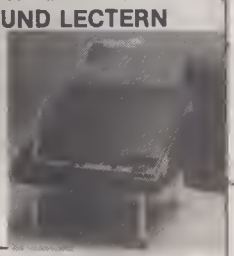
MODEL L-260 **OUR PRICE $479.95**

DESCRIPTION

Self-contained Table Top Sound Lectern for Conference and Meeting rooms, Schools, Hotels, Motels, Private Clubs, etc. Built-in solid state amplifier and dual speaker system. Unidirectional microphone and reading light. Acoustically engineered to provide clear voice reproduction with uniform sound coverage. Two microphone inputs and auxiliary input for tape or tuner. Finish: Walnut veneer laminate. Power output: 40 watts, Dimensions: 33"H. 21"W. 17"D. Weight: 45 lbs. Operates on AC or external 12V. battery supply.

PASO LEKTRON SERIES® PORTABLE SOUND LECTERN

For Audiences up to 1000



MODEL TA-8

OUR PRICE $399.95

DESCRIPTION

A self contained Portable Sound Lectern for conference and meeting rooms, classrooms, product demonstration, symposiums, etc. indoor or outdoor use. Dual speaker system, complete with microphone. Operates on 10 size D batteries or AC with optional adapter. Power output: 40 watts. Dimensions: 16 1/2" X 16 1/2" X 10". Weight: 25 lbs. Case finish: Deep brown cushioned vinyl.

PASO PAGING AND TALK BACK REFLEX SPEAKER

HIGH COMPRESSION DRIVER — 25/70 VOLT TRANSFORMER

MODEL TR-10/T **OUR PRICE $49.95**

Paging and Talk back reflex speaker with 25 and 70 volt line transformer for low to medium power levels.

SPECIFICATIONS

Rating: 20 watts. **Response:** 275-14,000 Hz. **SPL:** 122 dB. **Impedance:** 31-45-125-250-500-1000-2000-4000 ohms. **Dimensions:** 10-1/4"W x 6-1/4"H x 11"D. **Color Finish:** Light Beige.

PASO INDOOR/OUTDOOR HI-FI SPEAKER

FULLY WEATHERPROOF · HIGH MUSICAL QUALITY

MODEL C-50/U **OUR PRICE $39.95**

Weatherproof Hi-Fi speaker for high quality musical applications indoor or outdoor. The water and weatherproof construction allows permanent use outdoors without deterioration. Speaker will not rust, corrode, or discolor with time. Ideal for music reproduction and paging in high humidity environments.

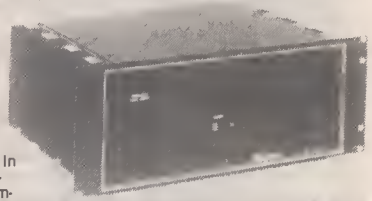
SPECIFICATIONS

Rating: 20 watts. **Response:** 50-18,00 Hz. **Impedance:** 16 ohms. **Dimensions:** 8" dia. 11"D. **Weight:** 6 lbs. **Finish:** Ivory.

BOGEN® POWER AMPLIFIERS, FAILURE DETECTOR

MODEL MT-125 (125 Watts)

OUR PRICE $479.95



MODEL MT-250C (250 Watts)

OUR PRICE $799.95

DESCRIPTION

The MT-C power amplifiers will serve superbly in virtually any sound reinforcement or public address application, as well as in emergency communications, schools, and other systems where reliable, continuous operation is essential. Rated at 125 watts and 250 watts (RMS continuous output), the new MT-C series power amplifiers meet new reliability standards.

FEATURES

- Standard 19" rack mounting—no additional accessories required.
- At rated output, total harmonic distortion is less than 2%, 50 to 15,000 Hz. Frequency response is ±2 dB, 20 to 20,000 Hz.
- A switch selects high-impedance unbalanced input or balanced input for low impedance or bridging. (Balanced input requires accessory plug-in transformer - see TL600, TL10LK, TL100.)
- Protection is built in against shorted output terminals, overloads, AC line surges, abnormal heat buildup.
- If overload should occur, front panel LED gives indication and amplifier shuts down automatically. • All-silicon solid state design.

TOA "TALK-BACK" SPEAKER

VOICE COIL IMPEDANCE PLUS DUAL 25/70 VOLT TRANSFORMER

MODEL TC-302 **OUR PRICE $59.95**

DESCRIPTION

The TC Series of 30 Watt (rated) paging horns are designed to penetrate the noisest environments with maximum speech intelligibility, and when called upon can deliver power considerably above their normal ratings. Their larger bell diameter, coupled with power reserve and frequency shaping audibly improves their ability to project musical program material and increases efficiency as a talk back speaker. The TC-302 has a voice coil impedence of 8 ohms and is recommended for all high power, direct coupled low impedence applications.

FEATURES

- Aluminized voice coil construction for less heat, higher power handling and longer life.
- Clear voice penetration of the noisiest environments. • Improved music program response.
- Completely weather-proof. • Universal swivel bracket saves installation time.

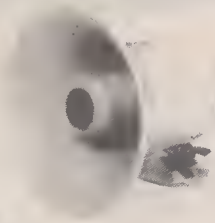
MODEL TC-373 **OUR PRICE $79.95**

DESCRIPTION Same as the above plus:

The new TC-373 is equipped with a dual 25/70 volt line matching transformer and a built-in 6 position power tap selector switch that is screwdriver-slot adjustable and they come with swivel mount brackets. The model TC-373 has protected screw terminals and provides a nominal 45 ohms and 600 ohms for console or high level intercom and talk-back applications.

FEATURES Same features as above plus:

- Six transformer power taps, screwdriver adjust switch.
- Highly articulate as a "talk-back" speaker. Nominal 45 and 600 ohms.



IH Series

SP Series

BOGEN PAGING AND TALK BACK SPEAKERS

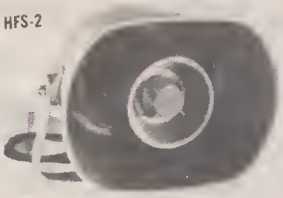
DESCRIPTION

Compact, high-intelligibility, double re-entrant type speakers ideal for indoor or outdoor installation. Speaker assembly is weatherproof, with a rigid, reliable mounting bracket adjustable on both the vertical and horizontal planes. Sturdy construction; "IH" series high-impact molded plastic, "SP" series all metal.

FEATURES

- High Intelligibility.
- Rugged construction.
- Wide Frequency Response.
- Built-in driver.
- Weatherproof.
- Omni-purpose bracket.

MODELS	IH-8	IH-45	SP-8	SPT	SPT-15
Power Capability (RMS)	15 watts	15 watts	30 watts	30 watts Vari-Tap selector switch adjustable @ 70 V to 1.8, 3.7, 7.5 15, or 30 W Adjustable @ 25 V to 1.8, 3.7, 7, or 15 W	15 watts Vari-Tap selector switch adjustable @ 70 V to .9, 1.8, 3.8, 7.5, or 15 W Adjustable @ 25 V to .48, .94, 1.8, 7.5, or 15 W
Freq. Response	350-12,000 Hz	350-12,000 Hz	225-14,000 Hz	225-14,000 Hz	275-14,000 Hz
Impedance	8 ohms	45 ohms	8 ohms	Vari-Tap selector switch adjustable to 2500, 1300, 666, 333, 167, 89, or 45 ohms	Vari-Tap selector switch adjustable to 5000, 2500, 1300, 666, 333, 89, or 45 ohms
Dispersion	130	130	100	100	110
Sound Level	120 dB	120 dB	125 dB	125 dB	121 dB
Magnet	Ferrite	Ferrite	Ferrite (self-aligning field-replaceable diaphragm)		
Finish	Beige		Metal Grey		
Dimensions	6½" bell dia. x 6⅝"D (16.5 x 16.8 cm)		10"W x 10½"D x 9½"H (25.4 x 26.7 x 24.1 cm)		8"W x 9"D x 8"H (20.3 x 22.9 x 20.3 cm)
Shipping Wt.	2½ lbs. (1.1 kg)	2½ lbs (1.1 kg)	7 lbs (3.2 kg)	6 lbs (2.7 kg)	4 lbs (1.8 kg)
Our Price	$44.95	$59.95	$64.95	$79.95	$66.95



HFS-2

BOGEN ALL-WEATHER HIGH FIDELITY COAXIAL PROJECTOR

MODEL HFS-2 OUR PRICE $119.95

DESCRIPTION

Model HFS-2 is designed for use in areas exposed to weather condition's and/or where high fidelity, high efficiency sound reproduction is e requisite. Incorporates enviroment-protected Woofer, compression type tweeter, two drivers, crossover filter and dividing network. Supplied with a rugged steel bracket for all type mounting applications. Recommended for euditoriums, athletic fields, motels, shopping centers, country clubs, etc.

SPECIFICATIONS

- **Power Capability:** 15 watts continuous.
- **Frequency Response:** 150-15,000 Hz.
- **Sound Level:** 117 dB.
- **Dispersion Angle:** 130° x 110°.
- **Impedance:** 8 ohms.
- **Finish:** Baked Beige enemel.
- **Dimensions:** 13¼"W x 10"D x 10¾"H (33.7 x 25.4 x 27.3 cm).
- **Shipping Weight:** 10 lbs. (4.5 kg).

BAH

WAH

BOGEN PROJECTOR HORN

For use with "DR" series, 1 3/8" - 18 thread, high-compression driver units

MODEL BAH OUR PRICE $99.95

DESCRIPTION

Bi-exial horn with gimbal mount — Bi-axial sectorel horn, with computer-calculated exponentiel flare rate, provdes uniform wide angle coverage. Gimbal mounts permits focusing sound within 180° directional arc. High efficiency non-resonant projector is molded of vibration-free rigid structural material. Re-entrant design essures true, lobe-controlled, horizontel dispersion pattern required for high quality voice and music systems.

BOGEN WIDE ANGLE PROJECTOR

MODEL WAH

OUR PRICE $99.95

DESCRIPTION

Non-resonant, all-purpose, exponential reflex type projector horn. Weatherproof fiberglass bell, heavy duty positive-lock mounting brecket.

MODELS	BAH	WAH
Low End Cut-Off	200 Hz	115 Hz
Dispersion	130° x 60	120° x 60
Air Column Length	2.8' (85.3 cm)	4½' (137.2 cm)
Bell Size	21" x 10¼" (53.3 x 26 cm)	23" x 13" (58.4 x 33 cm)
Horn Length	10¾" (27.3 cm)	17" (43.2 cm)
Shipping Weight	10 lbs (4.5 kg)	14½ lbs (6.6 kg)
Our Price	$99.95	99.95

DR-30T

DR-40T

BOGEN DRIVER UNITS

DESCRIPTION

Designed specifically for systems where high-intelligibility and wide mid-range response are required. Magnets are Alnico V DG. Double weather-sealing. Superb conversion efficiency. Excellent for replacement use on any loudspeaker with standard 1 3/8" -18 threads.
Sturdy construction end weather-sealing make the "DR" series ideel for indoor or outdoor epplications in factories, garages, transportation termials, race tracks. Finish is grey baked enamel.

MODELS	Power* (Cont.)	Power† (Eqlzd.)	Frequency (Hz)	Sound Level‡	impedance (ohms)	Power Taps (watts)	Ship. Wt.
DR-30T	30 W. RMS	40 W	120-14,000	126 dB	2500, 1300, 666, 333, 167, 89, 45	70 V line 1.8, 3.7, 7.5, 15, 30 25 V line 1.8, 3.7, 7.5, 15	5 lbs (2.3 kg)
DR-40T	40 W. RMS	60 W	80-12,000	131 dB	2000, 1000, 500, 250, 125, 16	70 V line 2.5, 5, 10, 20, 40	8 lbs. (3.6 kg)

DR-30T ..... **$ 69.95**
DR-40T **106.60**

BOGEN SOUND COLUMNS

MODEL SCW-20 OUR PRICE $89.95

MODEL SCW-35 OUR PRICE $169.95

MODEL SCW-80 OUR PRICE $259.95

DESCRIPTION

These carefully engineered wall-mounted sound columns provide the practical, economical answer to difficult sound reinforcement installations. By precisely restricting sound projection to a narrow vertical pettern, the sound columns greatly reduce dispersion of sound into undesirable areas. This effectively minimizes reflections which produce feedback "howl", simplifies microphone placement-and prevents "blasting" of audience near the loudspeakers. Excellent for churches, auditoriums, night clubs. . .and all locations where acoustic conditions present difficult problems which cannot be resolved by the use of conventional loudspeakers.

MODEL	SCW80	SCW35	SCW20
Wattage Rating (continuous)	80 watts	35 watts	20 watts
Frequency Response	50-15,000 Hz	70-14,000 Hz	120-10,000 Hz
Speakers	Six - 8"	Six - 6"	Four - 5"
Impedance	8 ohms		
Dispersion	Vertical 25°, Horizontal 120°		Vertical 45°, Horiz. 90°
Length of effective throw	200'	130'	50'
Terminals	2-screw terminal strips (polarized)		
Construction	½" particle board, glued, fastened, with mounting hardware		⅜" particle board, glued, fastened, with mtg. hardware
Finish	Simulated oiled walnut, black grille		
Dimensions	52"H x 7¼"D x 11½"W (132.1 x 18.4 x 29.2 cm)	42"H x 6"D x 9½"W (106.7 x 15.2 x 24.1 cm)	20"H x 5"D x 7½"W (50.8 x 12.7 x 19.1 cm)
Shipping Weight	48 lbs (21.8 kg)	31 lbs (14.1 kg)	12 lbs (5.4 kg)
Our Price	$259.95	169.95	89.95

MICROPHONES

ELECTRO-VOICE MICROPHONES

model:	RE-20	RE-15	RE-16	CS-15P	DS-35	RE-55	635A
type:	Cont. Variable-D® cardioid dynamic	Cont. Variable-D® super-cardioid dynamic	Cont. Variable-D® super-cardioid dynamic	single-d cardioid electret condenser	single-d cardioid dynamic	omni-directional dynamic	omni-directional dynamic
response:	45-18k Hz	80-15k Hz	80-15k Hz	40-18k Hz	60-17k Hz	40-20k Hz	80-13k Hz
impedance:	lo-z	lo-z	lo-z	lo-z	lo-z	lo-z	lo-z
output:	−57 d8	−56 d8	−56,dB	-45 dB	−60 dB	−57 dB	−55 dB
finish:	fawn beige	fawn beige	fawn beige	fawn beige	fawn beige	fawn beige	fawn beige
applications:	highest quality wide-range recording/p.a.	hand, stand, or boom/ broadcast/ recording/p.a.	close-up handheld vocal	highest quality p.a./ recording	prof. entertainer/broadcast/p.a./ recording	highest quality p.a./recording	hand or stand vocal/instrumental broadcast/recording
OUR PRICE	$419.95	$225.00	$249.95	$239.95	$139.95	$225.00	$89.95

model:	644	664	671BL or BH	627C	631B	647CL	647CH
type:	unidirectional line dynamic	super-cardioid Variable-D® dynamic	single-d cardioid dynamic	single-d cardioid dynamic	omni directional dynamic	lavalier dynamic	lavalier dynamic
response:	40-10k Hz	90-13k Hz	60-14k Hz	60-13k Hz	80-13k Hz	70-10k Hz	70-10k Hz
impedance:	dual hi-z/ lo-z	dual hi-z/ lo-z	dual hi-z/ lo-z	dual hi-z/ lo-z	dual hi-z or lo-z	specify hi- or lo-z	hi-z
output:	−53 d8	−56 d8	−57 d8	−58 d8	−55 d8	−60 dB	−61 dB
finish:	satin chrome	satin chrome	satin chrome	satin chrome	satin chrome	gray	gray
applications:	long-range pickup, stage/ classrooms	entertainers' p.a./recording	entertainers' p.a./recording	entertainers' p.a./recording	entertainers' p.a./recording	concealed/ walkaround p.a.	concealed walkaround p.a./broadcast
OUR PRICE	$235.00	$119.95	$99.95	$89.95	$99.95	$99.95	$99.95

DESCRIPTION FOR THE FOLLOWING MODELS: 588SA, 588SB, 588SB-CN

Maximum feature dynamic microphones at minimum cost! True cerdioid pickup pettern for feedback control; highly effective filter for indoor end outdoor use that provides protection from wind and 'pop' (explosive breath sounds); On/off switch with built-in locking plate to permanently lock microphone in on position; and professional three-pin audio connector. For stand or hend use. Gleaming satin chrome cese.

SHURE UNISPHERE B

MODEL 588SA

OUR PRICE $79.95

DESCRIPTION

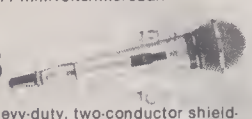
Supplied with 4.6m (15 ft.) heavy-duty, single-conductor shielded cable with femele professional three-pin audio connector[1] on microphone end. High impedance.

SPECIFICATIONS

Frequency Response: 80 to 13,000 Hz. Impedance and Output Level: High——59 dB; 1.11 millivolts/microbar.

MODEL 588SB

OUR PRICE $79.95



DESCRIPTION

Supplied with 4.6m (15 ft.) heevy-duty, two-conductor shielded ceble with femele professional three-pin audio connector[1] on microphone end. Low impedance.

SPECIFICATIONS

Frequency Response: 50 to 13,000 Hz. 150 ohms; —60.5 dB; .078 millivolts/microbar.

MODEL 588SB-CN

OUR PRICE $84.95

SPECIFICATIONS

Frequency Response: 50 to 13,000 Hz. 150 ohms; —60.5 dB; .078 millivolts/microber.

[1]Designed to mete with Cannon XL series, Switchcraft A3 (Q.G.) series, or equivalent connector.

SHURE DISPATCHER MICROPHONE

MODEL 450

OUR PRICE $69.95

DESCRIPTION

The new modern design of this rugged omnidirectional Dispatcher Microphone fits every decor for dispatching

SHURE CONDENSER MICROPHONE

MODEL SM-85

OUR PRICE $249.95

DESCRIPTION

The SM-85 is lightweight, rugged condenser microphone designed for hend-held live vocel applications.

SPECIFICATIONS

- Frequency Response: 50 to 15,000 Hz.
- Polar Pattern: Cardiode (unidirectionel) response.
- Impedance Reting: 150 ohms (recommended minimum load impedence 800 ohms).
- Cable: 7.6m (25 ft), two-conductor, shielded, Triple-Flex®.

SHURE UNISPHERE I

MODEL 565SD

OUR PRICE $119.95

DESCRIPTION

For stand or hand use. Features magnetic reed-type on/off switch built into the case, with built-in locking plate to permanently lock in microphone in on position. Solderless impedance change feature. Supplied with 4.6m (15 ft.) detachable, heavy duty, two-conductor shielded cable, with female professional three-pin audio connector on microphone end. Model A25B swivel adaptor included.

SPECIFICATIONS

Frequency Response: 50 to 15,000 Hz. Dual. 150 ohms; —57 dB; .141 millivolts/microbar High——54.5 dB; 1.88 millivolts/microbar.

SHURE UNISPHERE

MODEL 565D

OUR PRICE $119.95

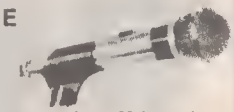
DESCRIPTION

Same as 565SD without on/off switch. Designed for those numerous applications where built-in switch is not desired, such as when soundmen wants to control 'on/off' at audio console.

SHURE UNISPHERE

MODEL 565SD-CN

OUR PRICE $129.95



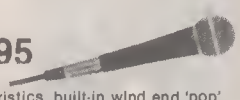
DESCRIPTION

Same as Model 565SD, but supplied with 6.1m (20 ft.) professional, heevy duty, two-conductor shielded cable, with professional three-pin audio connectors[1] on both ends of cable. Model A25B swivel edaptor included.

SHURE UNIDIRECTIONAL DYNAMIC MICROPHONE

MODEL SM-58

OUR PRICE $169.95



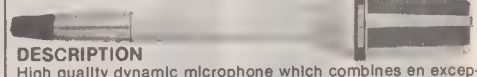
DESCRIPTION

The performance characteristics, built-in wind end 'pop' filter, and compact size of thie microphone meke it especially well suited to remote sports, news end interview pickups, as well es location end studio vocal music recording. 50-15,000 Hz frequency response. Unidirectional pickup. 150 ohm impedance. With 20 ft. ceble. Nonglere derk gray. 8-3/8" long. Net wt. 15 ozs. Shipping wt. 3 lbs.

SHURE UNIDIRECTIONAL DYNAMIC MICROPHONE

MODEL SM-59CN

OUR PRICE $199.95



DESCRIPTION

High quality dynamic microphone which combines en exceptionally flet frequency responee with excellent noise rejection and en outstending adaptebility. 50 to 15,000 Hz frequency response. Unidirectional pickup. 150 ohms impedance. With 20 ft. ceble. Aluminum with champegne enamel finish 7-15/32" long. Shipping wt. 3 lbs 9 ozs.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BOGEN FLOOR STAND
MODEL SF-2

OUR PRICE **$26.95**

FEATURES
- Grip-action clutches for positive locking control.
- Bases weighted toward outer rim for greater stability.
- Tubing chrome plated for durability and resistance to rust.
- Standard 5/8"-27 threads for convenient attachment of microphone.

SPECIFICATIONS
- Base: 10" (25.4 cm) Die. Charcoal Wrinkle.
- Tube Assembly: Bright Chrome.
- Height: 35" to 83" (88.9 to 160 cm).
- Shipping Wt: 10 lbs. (4.5 kg).

BOGEN BOOM ATTACHMENTS
MODEL MB-1

OUR PRICE **$16.95**

DESCRIPTION
Single positive-action triangular knob to control motion and positioning of diecast one-piece universal swivel. For use with any 5/8"-27 threaded adjustable microphone stand. Chrome tube 31" (78.7 cm) long. Tapered, black epoxy-coated counterweight. Recessed cable guide for professional appearance. 3lbs. (1.4 kg).

MODEL MB-2

OUR PRICE **$32.95**

DESCRIPTION
Operational flexibility, rugged construction, professional styling. Diecast swivel with individual knobs to control motion and orientation. Chrome tube expandable from 31" to 47" (78.7 to 119 cm), with grip-action clutch. Swivel and tapered counterweight finished in non-reflective charcoal. For use with 5/8"-27 threaded stands. Shipping Weight 4½ lbs. (2 kg).

BOGEN DESK STAND
MODEL DS-3

OUR PRICE **$9.95**

DESCRIPTION
General purpose stand. 4" (10.2 cm) high chrome tube. 8" (15.2 cm) dia. cast iron charcoal base. Shipping Weight 2 lbs. (0.9 kg).

BOGEN GOOSENECKS
DESCRIPTION
Strong, flexible "goose-necks" fit all stands and flanges. 5/8"-27 male and female threads. Bright chrome finish.

Model BG-6 6 inches (15.2 cm); Shipping Wt. ¼ lb. $7.95
Model BG-13 13 inches (33 cm); Shipping Wt. ¼ lb. $9.95
Model BG-19 19 inches (48.3 cm); 1 lb. $13.95

BP TRUMPET HORN SPEAKER
MODEL BP-5100

OUR PRICE **$16.95**

SPECIFICATIONS
- Impedance: 8 ohms.
- Maximum power: 25 watts.
- 5" x 8" rectangular trumpet speaker.

BP 100 WATT L PAD WITH PLATE
NEW!

MODEL AT-41

OUR PRICE **$6.95** each
10 FOR **$60.00**

BP HOME AUDIO LEVEL CONTROL
MODEL AT-40

OUR PRICE **$2.95** each 10 FOR **$25.00**

SPECIFICATIONS
- 8 ohm.
- Monaural L pad.

MODEL AT-40D

OUR PRICE **$4.95** each 10 FOR **$45.00**

SPECIFICATIONS
- 8 ohm.
- Stereo L pad.

AT-40

AT-40D

UNIDIRECTIONAL MICROPHONE
MODEL AT-814

OUR PRICE **$88.00**

NEW!

FEATURES
- Response: 50-18,000 Hz.
- Sensitivity: -58 dBm.
- No switch.
- Excellent feedback control.
- Excellent for close-up use.
- Low 250 ohms balanced, moving coil dynamic.
- Full one-year warranty.

DESCRIPTION
Excellent vocal microphone. Built-in wind screen filters out "pope" and breath noises. Top choice for voice or music in auditoriums, churches, gymnasiums, stadiums, etc. Excellent instrument microphone. Shock mounted head capsule.

UNIDIRECTIONAL MICROPHONE
MODEL AT-812
REG. $160.00

OUR PRICE **$74.95**

NEW!

FEATURES
- Response: 50-18,000 Hz.
- Sensitivity: -60 dBM.
- Recessed on/off switch.
- Outstanding feedback control.
- Excellent for close-up use.
- Low 600 ohms balanced, moving coil dynamic.
- Full one-year warranty.

DESCRIPTION
The AT-812 moving coil dynamic microphone exhibits an unusually smooth, wide range frequency response. The slight rise in response from 2-5 kHz yields excellent results when close miking instruments especially acoustic guitar or electric guitar, or other amplified instruments.

SUB-MINIATURE OMNIDIRECTIONAL MICROPHONE
MODEL AT-803S
REG. $150.00

OUR PRICE **$69.95**

NEW!

FEATURES
- Response: 50-15,000 Hz.
- Sensitivity: -57 dBm.
- Battery & recessed on/off switch on professional belt clip.
- Low 800 ohms balanced sub-miniature clip-on electret condenser.
- Full one-year warranty.

DESCRIPTION
The 800 ohm output of this microphone provides an excellent match to low and mid impedance inputs of modern solid state professional and semi-professional tape recorders and mixers.

BP UNIVERSAL LINE MATCHING TRANSFORMER
Match 4-8 Ohm Speakers with Standard Taps

MODEL LT 70-5 70 volt 5 watt
MODEL LT 70-10 70 volt 10 watt
MODEL LT 25-10 25 volt 10 watt

OUR PRICE **$2.95** each 10 FOR **$25.00** any assortment

BP METAL CEILING GRILL 8" SPEAKER
MODEL CL-82W

OUR PRICE **$3.95**

SPECIFICATIONS
- 12-7/8".

LOWELL CEILING SPEAKER BAFFLE
MODEL ADS-80P

OUR PRICE 1-9 **$5.25** each 10 FOR **$45.00**

DESCRIPTION
Lowell Model ADS80-P ceiling baffle has become a standard of the industry. In addition to being molded of durable high impact styrene, this ceiling speaker baffle has been engineered to provide excellent dispersion of sound. This has been accomplished by unique slots located in the circular fins of the grille. Speaker is mounted to back of baffle by means of self-tapping screws eliminating unsightly speaker screws.

MODEL CR-80P

OUR PRICE 1-9 **$4.50** each 10 FOR **$40.00**

DESCRIPTION
Ideal baffle designed for either ceiling or wall recessed installations. Model CR80-P is molded of durable high-impact styrene and is available in white only. Self-tapping screws are used to mount speaker to back of grille, thus eliminating visible speaker mounting screws. All mounting hardware is furnished.

MICROPHONES

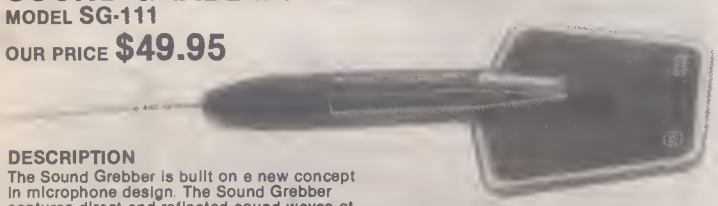
BP MICROPHONE
With 3P, XLR Plug
MODEL DM-6002
OUR PRICE **$49.95**

SPECIFICATIONS
30-16,000Hz, 250 Ohm, -76dB ± 3dB at 1 Khz. Zinc diecast/370g 55 ø x 165m/m.

BP 24K GOLD PLATED MICROPHONE
With 3P. XLR Plug
MODEL DM-6003
OUR PRICE **$49.95**

SPECIFICATIONS
40-17,000Hz, 500 Ohm, -75dB ± 3dB at 1 Khz. Zinc diecast/260g 52 ø x 170m/m.

SOUND GRABBER® MICROPHONE
MODEL SG-111
OUR PRICE **$49.95**



DESCRIPTION
The Sound Grabber is built on a new concept in microphone design. The Sound Grabber captures direct and reflected sound waves at the precise moment they reinforce each other. This new microphone design provides the extra clarity and range you need for better quality recording with video cameras or audio cassettes. It makes your own recorder sound like a more expensive component. The Sound Grabber will accurately pick up sounds coming from any direction in front of the mike, and does not have to follow the action closely. This makes it ideal for conferences, churches, or family picnics—wherever the sound source tends to wander.
The Sound Grabber is rugged, durable and light. It is equipped with a 1/6" mike plug on a ten-foot cord. Adaptors are included so you can use the mike with any recorder.

BP DYNAMIC TWIN MATCHED MICROPHONES FOR ALL STEREO SYSTEMS
MODEL DM-710
OUR PRICE **$19.95** per pair

FEATURES
- Unidirectional Dynamic microphones.
- Low imp. 600 Ohms.
- Sensitivity: 74dB ± 3dB.
- Freq. Res.: 100-15,000 Hz.
- 10 Ft. cord with 1/4" mic plug.
- Comes packaged red & white together.

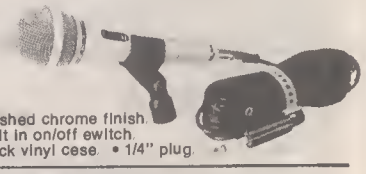
BP VIDEO CAMERA MICROPHONE
MODEL V-6502
OUR PRICE **$34.95**

SPECIFICATIONS
- Super Cardioid.
- Electret Condenser.
- 60-12,000Hz.
- 520 Ohms (For long distance).
- 2.3 Kohm (For short distance).
- -66dB (Short dis. IV u ber 1Khz).
- -56dB (Long dis. IV u ber 1Khz).
- 3 position: (Normal cardioid. Super cardioid. Off.)
- 220 o x 260m/m.
- 130g.
- Aluminum.
- Curl cable. • 3.5 mm plug.
- DC 1.5V one AA size battery.

BP MATCHED STEREO RECORDING MICROPHONE
MODEL DM-305
OUR PRICE **$7.95** per pair

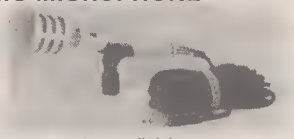
DESCRIPTION
Economy-type microphones for compact hi-fi systems with record feature. Low impedance. Dual mini and submini molded plugs for recorders with remote on/off capability. Complete with on/off switch, 3 ft. cable, stand. With 3.5mm plug and 2.5mm plug plus stand.

BP DUAL IMPEDANCE DYNAMIC MICROPHONE
MODEL DM-410
OUR PRICE **$16.95** each



SPECIFICATIONS
- Dual impedance 500 ohm or 50K ohm.
- 20 ft. cable.
- Frequency response: 60-15,000 Hz.
- Sensitivity: Hi imp — 52 dB; Low imp — 72 dB.
- Brushed chrome finish.
- Built in on/off switch.
- Black vinyl case. • 1/4" plug.

BP DUAL IMPEDANCE DYNAMIC MICROPHONE
MODEL DM-416
OUR PRICE **$29.95** each

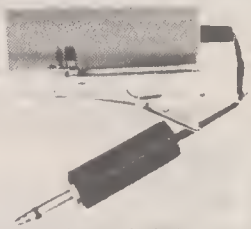


SPECIFICATIONS
- Dual impedance 600 ohm and 50K ohm.
- Built in on/off switch.
- 20 ft. single conductor shield cable.
- Frequency response: 50-15,000 Hz.
- Sensitivity: Hi imp - 56 dB; Low imp - 74 dB.
- Brushed chrome finish.
- Excellent reproduction of voice and music.
- Black vinyl case. • 1/4".

BP MATCHED PAIR STEREO MICROPHONES
MODEL DM-705
OUR PRICE **$9.95** per pair

SPECIFICATIONS
- Dynamic microphones for cassette tape recorder.
- Matched pair for stereo.
- Low impedance.
- Sensitivity: —70 dB at 1 kHz.
- Response: 60-12,000 Hz.
- 4-1/2 foot cable.
- With 3.5mm plug.
- Blister package.

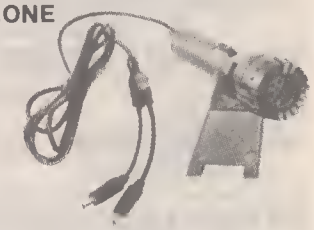
BP ELECTRET CONDENSER MICROPHONE
MODEL EM-106
OUR PRICE **$19.95** each



FEATURES
- The Super mini microphone with tie clasp is suitable for application on school teaching, public speaking, and recording.
- High sensitivity and wide frequency response.
- With one UM-3 battery, it can work 10,000 hours continuously.

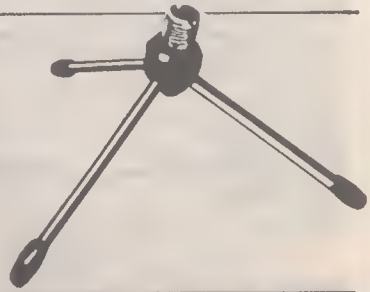
SPECIFICATIONS
- Directionality: Omni-directional.
- Impedance: 1000 ohm.
- Sensitivity: —65 dB at 100 Hz.
- Frequency response: 16 Hz—20 kHz.
- Power supply: UM —3 (1.5V) x1.
- Weight: 110 gr. (with plug).
- Dimensions: 13 x 23mm.
- Material: Aluminum and copper.
- Cord: 4M. • 1/4" plug.

BP BUDGET CASSETTE MICROPHONE
MODEL DM-24
OUR PRICE **$1.95** each
10 FOR **$17.50**



FEATURES
- 200 ohms impedance.
- 5' cord.
- 3.5mm phone plug and 2.5mm remote control plug.
- Desk stand.
- Packed in polybag with header.

BP DESK TYPE TRI-POD MICROPHONE STAND
MODEL DM-88
OUR PRICE **$2.95**



DESCRIPTION
This folding table top microphone stand offers maximum stability because of its wide stance and non-skid leg tips. It fits all microphones and the special adaptor accepts all three of the threaded connections commonly used on microphone holders.

CONNECTORS

MODEL SP-218
OUR PRICE 10 For **$2.50**
100 For **$20.00**

Long handle plastic mini plug 3.5mm.

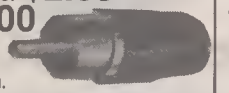
MODEL SP-219
OUR PRICE 10 For **$4.50**
100 For **$40.00**

3.5mm stereo plug.

MODEL SP-222
OUR PRICE 10 For **$3.50**
100 For **$30.00**

RCA shielded plug.

MODEL SP-222A
OUR PRICE 10 For **$2.50**
100 For **$20.00**



RCA plastic plug.

MODEL SP-225
OUR PRICE 10 For **$3.50**
100 For **$30.00**

Standard mono 1/4" phone plug screw terminal.

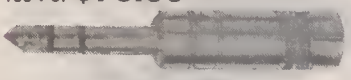
MODEL SP-228
OUR PRICE 10 For **$6.50**
100 For **$60.00**

1/4" shielded metal phone plug.

MODEL SP-230
OUR PRICE **69¢** 10 For **$6.00**

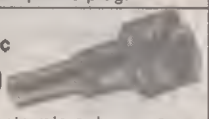
Stereo 1/4" standard phone plug screw terminal.

MODEL SP-231
OUR PRICE 10 For **$8.00**
100 For **$75.00**



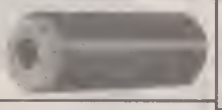
1/4" shielded metal phone plug.

MODEL SP-240
OUR PRICE **89¢**
10 For **$7.90**



Standardized female microphone connector.

MODEL SJ-215
OUR PRICE 10 For **$2.50**



Plastic mini jack 3.5mm.

MODEL SJ-223
OUR PRICE 10 For **$3.50**
100 For **$30.00**

RCA shielded jack.

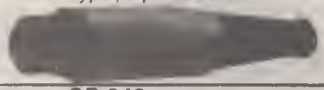
MODEL SJ-223A
OUR PRICE 10 For **$3.00**
100 For **$25.00**

RCA plastic jack.

MODEL SJ-226
OUR PRICE **49¢**
10 For **$4.00**

Standard 1/4" slim inline phone jack molded handle Color: black, gray, red.

MODEL SP-242
OUR PRICE **$2.95**
'Cannon type', 3-pin female.



MODEL SP-243
OUR PRICE **$2.95**
'Cannon type; 3-pin male.

MODEL AP-156
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor, 3.5mm plug to RCA phono jack.

MODEL AP-160
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor, RCA phono plug to 3.5mm jack

MODEL AP-163
OUR PRICE **$99¢**
10 For **$9.00**

1/4" stereo jack to 3.5mm stereo plug.

MODEL AP-164
OUR PRICE **$99¢**
10 For **$9.00**

Molded adaptor 3.5mm stereo jack to 1/4" stereo plug.

MODEL AP-171
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor 3—conductor 1/4" phone plug to 3.5mm jack.

MODEL AP-172
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor, 3.5mm plug to 3—conductor 1/4" phone jack.

MODEL AP-181
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor, 3.5mm plug to 1/4" phone jack.

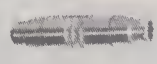
MODEL AP-182
OUR PRICE **79¢**
10 For **$6.90**

Molded adaptor, 1/4" phone plug to 3.5mm jack.

MODEL AP-201
OUR PRICE **79¢**
10 For **$6.90**

Molded RCA jack to 1/4" standard phone plug adaptor.

MODEL AP-202
OUR PRICE **79¢**
10 For **$6.90**



Molded both ends RCA jack.

CB CONNECTOR
MODEL SP-245
OUR PRICE **99¢**
10 For **$9.00**

3 pin connector.

CB CONNECTOR
MODEL SP-250
OUR PRICE **99¢**
10 For **$9.00**

4 pin connector.

CB CONNECTOR
MODEL SP-551
OUR PRICE **69¢** each
10 FOR **$4.90**

PL-259 plug.

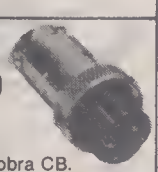
CB CONNECTOR
MODEL SP-254
OUR PRICE **79¢**
10 For **$5.90**

4 pin din plug.

CB CONNECTOR
MODEL SP-255
OUR PRICE **79¢**
10 For **$5.90**
5 pin din plug.

CB CONNECTOR
MODEL SP-256
OUR PRICE **79¢**
10 For **$5.90**
6 pin din plug.

CB CONNECTOR
MODEL SP-265
OUR PRICE **$1.20**
10 For **$10.00**



5 pin connector for Cobra CB.

CB CONNECTOR
MODEL CB-544
OUR PRICE **$1.25**
5 For **$4.95**

4 pin male "Y" connector.

CB CONNECTOR
MODEL CB-552
OUR PRICE **89¢**
5 For **$4.00**

(SO-239) chassis connector.

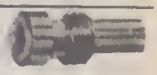
CB CONNECTOR
MODEL CB-553
OUR PRICE **99¢**
10 For **$9.00**

(PL-258) double female.

CB CONNECTOR
MODEL CB-555
OUR PRICE 10 For **$1.80**

(UG-175/U) adaptor for RG-58/U cable.

CB CONNECTOR
MODEL CB-556
OUR PRICE 10 For **$1.80**

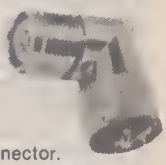


(UG-176/U) adaptor for RG-59/U cable.

CB CONNECTOR
MODEL CB-557
OUR PRICE **$1.50**
10 For **$12.00**

Universal jack adaptor adapts PL-259 to Motorola type auto antenna jack or RCA type phono jack. Net wt.: 18 gr.

CB CONNECTOR
MODEL CB-558
OUR PRICE **$2.00**
10 For **$18.00**



(M-359) right angle connector.

CB CONNECTOR
MODEL CB-560
OUR PRICE **$2.50**
5 For **$10.00**

(M-358) T-connector.

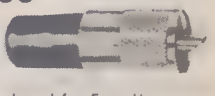
CB CONNECTOR
MODEL CB-562
OUR PRICE **$1.50**
10 For **$12.00**

Adaptor.

CB CONNECTOR
MODEL CB-563
OUR PRICE **$1.50**
10 For **$12.00**

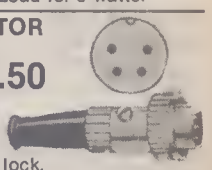
Double male adaptor.

CB CONNECTOR
MODEL CB-570
OUR PRICE **$1.75**
10 For **$15.00**



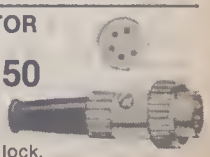
Lighted dummy. Load for 5 watts.

CB CONNECTOR
MODEL CB-594
OUR PRICE **$1.50**
5 For **$6.00**



4 pin male. Twist lock.

CB CONNECTOR
MODEL CB-595
OUR PRICE **$1.50**
5 For **$6.00**

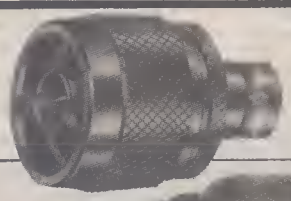


5 pin male. Twist lock.

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

CONNECTORS/CABLES/SWITCHES

N CONNECTOR
MODEL N-10
OUR PRICE **$3.75** each
10 FOR **$35.00**
"N" Type Male to BNC Female

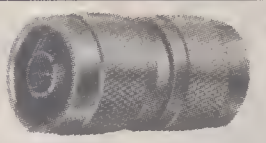


NEW!

N CONNECTOR
MODEL N-30
OUR PRICE **$2.75** each
10 FOR **$25.00**
"N" Type Crimp Male Connector For RG-59U

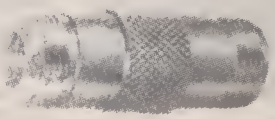
NEW!

N CONNECTOR
MODEL N-40
OUR PRICE **$3.25** each
10 FOR **$30.00**
"N" Type Male to Male Inline Connector



NEW!

N CONNECTOR
MODEL N-90
OUR PRICE **$3.25** each
10 FOR **$30.00**
"N" Type Double Female



NEW!

N CONNECTOR
MODEL N-140
OUR PRICE **$3.25** each
10 FOR **$30.00**
"N" Type Right Angle Male-Female.

NEW!

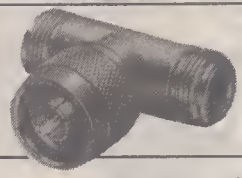
N CONNECTOR
MODEL N-130
OUR PRICE **$3.95** each
10 FOR **$37.50**
"N" Type Male to UHF Female

NEW!

N CONNECTOR
MODEL N-160
OUR PRICE **$3.75** each
10 FOR **$35.00**
"N" Type Female To UHF Male

NEW!

N CONNECTOR
MODEL N-190
OUR PRICE **$3.95** each
10 FOR **$37.50**
2 "N" Type Females to "N" Type Male



NEW!

BP AUDIO CABLE
MODEL RU-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • RCA plug to two spade lugs.

BP AUDIO CABLE
MODEL RP-69
OUR PRICE **$2.99** each 10 FOR **$27.00**
• 20 ft. shielded coiled guitar cable.
• 1/4" phone plug to 1/4" right angle phone plug. • Poly with header.

BP AUDIO CABLE
MODEL RJ-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • RCA plug to RCA jack.

BP AUDIO CABLE
MODEL RM-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • 3.5mm plug to 3.5mm jack.

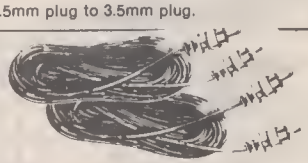
BP AUDIO CABLE
MODEL RP-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • RCA plug to 3.5mm plug.

BP AUDIO CABLE
MODEL RR-12-24
OUR PRICE **95¢** each
10 FOR **$7.50**
• 24 AWG: 12 ft. brown speaker cable. • RCA plug on both ends

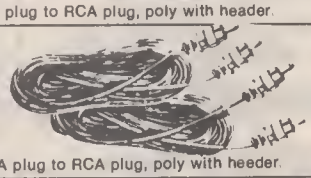
BP AUDIO CABLE
MODEL RR-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • RCA plug to RCA plug.

BP AUDIO CABLE
MODEL RS-25-24
OUR PRICE **$1.20** each
10 FOR **$10.00**
• 24 AWG: 25 ft. brown speaker cable. • 3.5mm plug to 3.5mm plug.

BP AUDIO CABLE
MODEL RR-24-24C2
OUR PRICE **$2.25** each
10 FOR **$20.00**
• 24 AWG: Two 25 ft. clear cable. • RCA plug to RCA plug, poly with header.



BP AUDIO CABLE
MODEL RR-40-24C2
OUR PRICE **$2.50** each
10 FOR **$22.50**
• 24 AWG: Two 40 ft. clear cable. • RCA plug to RCA plug, poly with header.



BP TOGGLE SWITCH
MODEL TS-144-SPST
OUR PRICE **99¢** each
10 FOR **$9.00**
SPECIFICATIONS
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Chrome on/off face plate.
• Display package.

BP TOGGLE SWITCH
MODEL TS-146-DPDT
OUR PRICE **$1.69** each
10 FOR **$15.00**
SPECIFICATIONS
• Center off.
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Chrome on/off face plate.
• Display package.

BP MINI TOGGLE SWITCH
MODEL TS-148-6P DPDT (On-On)
OUR PRICE **$1.00** each
10 FOR **$9.00**
SPECIFICATIONS
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Display package.

BP TOGGLE SWITCH
MODEL TS-145-DPDT
OUR PRICE **$1.20** each
10 FOR **$10.00**
SPECIFICATIONS
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Chrome on/off face plate.
• Display package.

BP MINI TOGGLE SWITCH
MODEL TS-147-2P SPST (On-Off)
OUR PRICE **90¢** each
10 FOR **$8.00**
SPECIFICATIONS
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Display package.

BP MINI TOGGLE SWITCH
MODEL TS-149-6P DPDT (On-Off-On)
OUR PRICE **$1.35** each
OUR PRICE **$12.00**
SPECIFICATIONS
• Center off.
• Solder lug terminals 125-volt 3-amp.
• High dielectric bakelite case.
• Display package.

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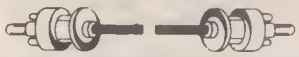
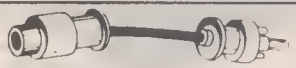
MODEL RR-Y
OUR PRICE **99¢** 10 FOR **$9.00**
Shielded cable—Y connector—RCA plugs on all ends 4" (gray).

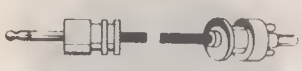
MODEL RJ-26S
OUR PRICE **99¢** 10 FOR **$9.00**
6 ft. shielded cable—RCA jack to RCA jack (gray).



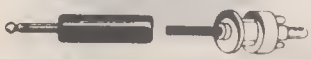
MODEL RR-6S
OUR PRICE **99¢** 10 FOR **$9.00**
6 ft. shielded cable—RCA plug on both ends (gray).



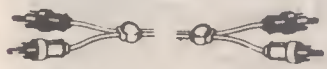
MODEL RJ-6S
OUR PRICE **99¢** 10 FOR **$9.00**
6 ft. shielded cable—RCA plug to RCA jack (gray).



MODEL RS-6S
OUR PRICE **99¢** 10 FOR **$9.00**
6 ft. shielded cable—RCA plug to 3.5mm mini plug (gray).



MODEL RP-6S
OUR PRICE **$1.69**
10 FOR **$15.00**
6 ft. shielded cable 1/4" phone plug to RCA plug (gray).

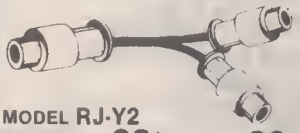


MODEL RR-6SC
OUR PRICE **$1.20** each
10 FOR **$10.00**
6 ft. double shielded cable—Two RCA plugs both ends (color coded).

MODEL RR-3SC
OUR PRICE **99¢** 10 FOR **$9.00**
3 ft. double shielded cable—Two RCA plugs both ends (color coded).

MODEL MC-20
OUR PRICE **$3.50**
1/4" phone plug to standard mic connector (gray) 20 ft. mic cable.

MODEL RJ-Y
OUR PRICE **99¢** 10 FOR **$9.00**
4" Y connector— —RCA plug to two RCA females 4" shielded (gray).

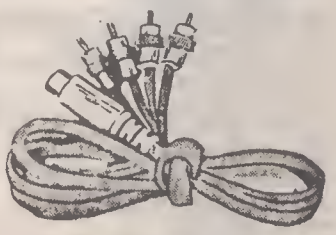


MODEL RJ-Y2
OUR PRICE **99¢** 10 FOR **$9.00**
4" Y connector—RCA jacks on all ends

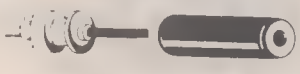
MODEL RR-51
OUR PRICE **99¢** 10 FOR **$9.00**
Shielded cable—4" Y connector—RCA phono jack to two RCA phono plugs.

MODEL RR-52
OUR PRICE **99¢** 10 FOR **$9.00**
4" Y connector—shielded cable—RCA plug to two 3.5mm mini jacks.

MODEL RR-53
OUR PRICE **$1.25**
6 ft. shielded cable—3.5mm mini plug to stereo jack (gray).



MODEL RR-54
OUR PRICE **$2.95**
6 ft. shielded cable—5 pin din male plug to 4 color coded standard RCA phono plug (gray).



MODEL RR-55
OUR PRICE **$1.25**
6 ft. shielded cable—RCA phono plug to standard 1/4" phono jack (gray).

MODEL RR-56
OUR PRICE **$1.20**
10 FOR **$10.00**
6 ft. shielded cable—RCA phono plug to two alligator clips (gray).

MODEL RR-57
OUR PRICE **$4.50** per pkg.
Four 6 ft. shielded cables in 4 different colors—RCA phono plug to RCA phono plug.

MODEL RR-58
OUR PRICE **$1.20**
10 FOR **$10.00**
6 ft. shielded cable—3.5mm mini plug to stripped tin wire (gray).

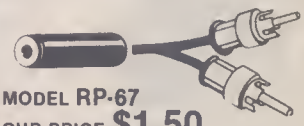
MODEL RR-59
OUR PRICE **$1.99**
10 FOR **$18.00**
Cassette mic extension cable—6 ft. double shielded cable—3.5mm and 2.5mm plug to 3.5mm jack and 2.5mm jack (gray).

MODEL RR-60
OUR PRICE **$1.50**
10 FOR **$12.50**
6 ft. coiled shielded cable—RCA plug to RCA plug (gray).

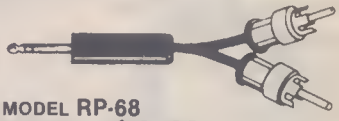
MODEL RR-61
OUR PRICE **$1.20**
10 FOR **$10.00**
6 ft. shielded cable—RCA plug to stripped tinned ends (gray).

MODEL RR-62
OUR PRICE **$1.50**
10 FOR **$12.50**
Y connector—6 ft. double shielded cable—3.5mm plug to two RCA plugs.

MODEL RP-66
OUR PRICE **$1.50**
10 FOR **$12.50**
6 ft. shielded cable—1/4" phone plug to RCA jack (gray).



MODEL RP-67
OUR PRICE **$1.50**
10 FOR **$12.50**
Y connector—6" shielded cable—1/4" stereo jack to two RCA plugs (gray).



MODEL RP-68
OUR PRICE **$1.49**
10 FOR **$12.50**
Y connector—6 ft. double shielded cable—1/4" stereo plug to two RCA plugs .

MODEL RS-10
OUR PRICE **$1.49**
10 FOR **$12.50**
6 ft. shielded cables 3.5mm plug to 1/4" standard phone jack (gray).

MODEL RS-71
OUR PRICE **$1.20**
10 FOR **$10.00**
6 ft. shielded cable—3.5mm plug to RCA jack (gray).

MODEL RS-72
OUR PRICE **$1.50**
10 FOR **$12.50**
6 ft. shielded cable—1/4" phone plug to 1/4" phone jack (gray).

MODEL RS-73
OUR PRICE **$1.20**
10 FOR **$10.00**
6 ft. shielded cable—3.5mm mini plug to 3.5mm mini plug.

SPEAKERS

BP 4" SPEAKER 10 OZ. CERAMIC MAGNET
MODEL BP-1000-4

OUR PRICE **$6.95** each 2 FOR **$12.00**

SPECIFICATIONS
- Air suspenelon.
- 3/4" voice coil.
- Frequency response: 120-10,000 Hz.
- impedence: 8 ohme.
- **Diaplay packaga.**

BP 6" SPEAKER 10 OZ. CERAMIC MAGNET
MODEL BP-1000-6

OUR PRICE **$7.95** each

2 FOR **$14.00**

SPECIFICATIONS
- Air suspension with foem edge.
- impedence: 8 ohms.
- Msximum power: 20 wetts.
- Frequency response: 50-15,000 Hz.
- **Diaplay packaga.**

BP 4" DOME TWEETER
MODEL BP-4400

OUR PRICE **$7.95** each

2 FOR **$14.00**

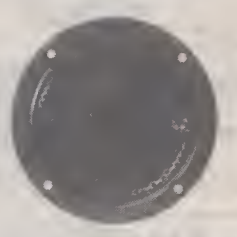
SPECIFICATIONS
- 4.5 oz. megnet
- impedence: 8 ohme.
- Maximum power: 50 wetts.
- Crossover frequency: 4000-2000 Hz.
- **Diaplay package.**

BP 5-1/4" DOME MIDRANGE
MODEL BP-4550

OUR PRICE **$12.95** each

2 FOR **$20.00**

FEATURES
- 11 ounce ceremic megnet.
- 50 wetts meximum input.
- Frequency range 800-14,000 Hz.
- 2" myier diephregm.
- Sensitivity: 93 dB.
- impedence: 8 ohme.

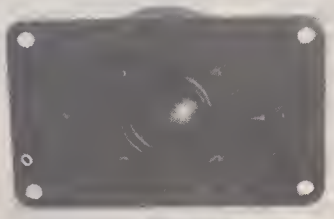


BP SOFT DOME TWEETER
MODEL BP-4600

OUR PRICE **$12.95** each

2 FOR **$20.00**

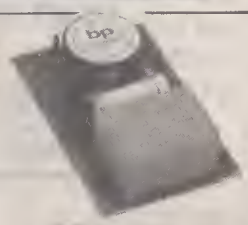
FEATURES
- Meesures 4-1/2" x 3"½
- 5.3 ounce ceremic megnet.
- 50 wett meximum input.
- Frequency renge: 2,000-20,000 Hz.
- impedence: 8 ohms.



BP 3-WAY CROSSOVER NETWORK
MODEL BP-737

OUR PRICE **$7.95** each 2 FOR **$14.00**

SPECIFICATIONS
- Impedence: 8 ohms.
- Croesover: 700 Hz. 5 kHz.
- Meximum power input: 40 wetts.
- Rolloff: 8 dB/oct.
- Dimensions: 95 x 80 x 25mm.
- **Diaplay packaga.**



BP 3-WAY CROSSOVER NETWORK
MODEL BP-747

OUR PRICE **$10.95** each 2 FOR **$20.00**

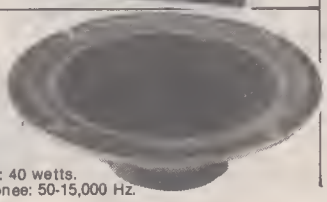
SPECIFICATIONS
- impedence: 8 ohms.
- Croesover: 800 Hz. 5 kHz.
- Meximum power input: 50 wetts.
- Rolloff: 12 dB/oct.
- Dimensions: 113 x 93 x 30mm.
- **Diaplay packaga.**

BP 8" SPEAKER 20 OZ. CERAMIC MAGNET
MODEL BP-2000-6

OUR PRICE **$9.95** each

2 FOR **$18.00**

SPECIFICATIONS
- Air euspenelon with foem edge.
- impedence: 8 ohms.
- Meximum power: 40 wetts.
- Frequency reeponee: 50-15,000 Hz.
- **Diaplay package.**



BP 6" GENERAL PURPOSE SPEAKER
MODEL BP-300-6

OUR PRICE **$3.95** each

2 FOR **$7.00**

FEATURES
- 6" generel purpose speeker with duet cover.
- 3 oz. ceremic megnet.

BP 6" SPEAKER 3 OZ. CERAMIC MAGNET
MODEL BP-300-6

OUR PRICE **$3.95** each

2 FOR **$7.00**

SPECIFICATIONS
- Frequency response: 70-15,000 Hz.
- impedence: 8 ohms.
- Meximum power: 15 wette.
- **Diaplay packaga.**

BP 6" COAXIAL SPEAKER 10 OZ. CERAMIC MAGNET
MODEL BP-1000-8CX

OUR PRICE **$9.95** each

2 FOR **$18.00**

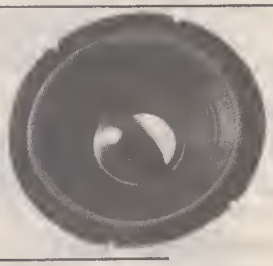
SPECIFICATIONS
- Cloth roll air suspended woofer.
- Separete 3" high efficiency tweeter.
- Frequency response; 70-15,000 Hz.
- impedence: 8 ohms.
- Meximum power: 15 wetts.

BP 10" SPEAKER 20 OZ. MAGNET
MODEL BP-1020

OUR PRICE **$19.95** each

2 FOR **$36.00**

SPECIFICATIONS
- Air euspension with foem edge.
- 2" voice coil.
- Frequency response: 30-10,000 Hz.
- 45 watt M.P. 90 P.P.
- Impedance: 8 ohms.
- Maximum power: 60 wetts.



12" SPEAKER 10 OZ. CERAMIC MAGNET
MODEL BP-1210 OUR PRICE **$12.95** each 2 FOR **$24.00**

SPECIFICATIONS
- Air suspension epeaker with foem edge. • impedance: 8 ohms.
- Maximum power: 25 wetts. • Frequency response: 30-8000 Hz.

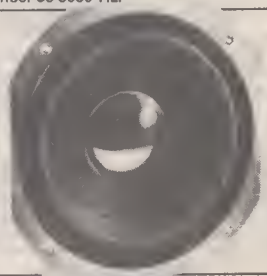
12" SPEAKER 20 OZ. CERAMIC MAGNET
MODEL BP-1220 OUR PRICE **$19.95** each 2 FOR **$36.00**

SPECIFICATIONS
- Air suspension speaker with foam edge. • impedence: 8 ohme.
- Meximum power: 50 watts. • Frequency response: 30-8000 Hz.

BP 12" HIGH COMPLIANCE SQUARE SPEAKER 40 OZ. CERAMIC MAGNET
MODEL BP-1240

OUR PRICE **$29.95** each

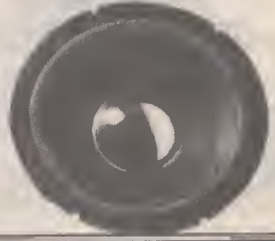
SPECIFICATIONS
- Air suspension with foam edge.
- 2" voice coil.
- Frequency response: 30-10,000 Hz.
- 45 wett M.P. 90 P.P.
- Impedance: 8 ohme.
- Meximum power: 60 wetts.



BP 12" HIGH COMPLIANCE ROUND SPEAKER
MODEL BP-1242

OUR PRICE **$29.95** each

SPECIFICATIONS
- 40 oz. ceremic megnet.
- Air suspension.
- Foam edge.
- 2" voice coil.
- Frequency response: 30-10,000 Hz.
- Maximum power: 60 wette.



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BP DELUXE STEREO HEADPHONE
MODEL SH-60A
REG. $14.95
OUR PRICE $6.95

SPECIFICATIONS
- Sensitivity: 110 dB at 1000 Hz with 1 mW.
- Frequency response: 20-16,000 Hz.
- Unit impedance: 6 ohms.
- Matching impedance: 6 to 16 ohms.
- Maximum input: 0.5 watts.
- Connecting cord: 10 foot long cord with 3-circuit phone plug.
- With volume controls.

BP HEADPHONE
MODEL SH-65A
REG. $16.95
OUR PRICE $7.95

DESCRIPTION
Large cushioned adjustable comfort-ez speakers. Standard 1/4" stereo plug. Quality performance at an economy price.

FEATURES
- Sensitivity: 110 dB at 1000 Hz with 1 mW.
- Frequency response: 20-16,000 Hz.
- Unit impedance: 6 ohms.
- Matching impedance: 4 to 16 ohms.
- Maximum input: 0.5 watts per channel.

BP FULL SPECTRUM DELUXE STEREO HEADPHONE
MODEL SH-70A
REG. $19.95
OUR PRICE $9.95

SPECIFICATIONS
- Sensitivity: 110 dB at 1000 Hz with 1 mW.
- Frequency response: 20-16,000 Hz.
- Unit impedance: 6 ohms.
- Matching impedance: 4 to 16 ohms.
- Maximum input: 0.5 watts per channel.
- Connecting cord: 10 foot long tangle-free coiled cord with stereo phone plug.
- Volume controls for each channel.
- Stereo-Monaural slide switch for mono listening.
- Soft adjustable padded headband.
- Leathery-soft ear cushions.

BP FULL SPECTRUM DELUXE STEREO HEADPHONE
MODEL SH-80A
REG. $29.95
OUR PRICE $12.95

SPECIFICATIONS
- Frequency response: 20-16,000 Hz.
- Matching impedance: 4 to 16 ohms.
- Connecting cord: Coiled cord with stereo plug.
- Rotary volume control for each channel.
- Stereo-Monaural convertible switch.
- Soft adjustable padded headband.
- Leathery-soft ear cushions.

BP HEADPHONE
MODEL SH-87A
REG. $19.95
OUR PRICE $4.95

DESCRIPTION
An ultra lightweight headphone for all reasons, seasons and people on the go. Ideal for portable cassette players and radios.

SPECIFICATIONS
- Impedance: 4-32 ohms. • Cord length: 6.6'.
- Frequency: 20-16,000 Hz. • Stereo plug: .136".

BP HEADPHONE
MODEL SH-89A
REG. $29.95
OUR PRICE $7.95

DESCRIPTION
An ultra lightweight headphone featuring quality at a price. Swivel type speakers are adjustable within a 90° arc for maximum comfort. Ideal for portable cassettes and radios. Cable end has 3.5mm mini plug. Furnished with standard 1/4" plug adaptor for home stereo equipment.

SPECIFICATIONS
- Impedance: 4-32 ohms. • Cord length: 6.6'.
- Frequency: 20-20,000 Hz. • Stereo plug: .136".

BP ULTRA LIGHT PROFESSIONAL STEREO HEADPHONE
MODEL SH-90A
REG. $39.95
OUR PRICE $19.95

SPECIFICATIONS
- Frequency response: 15-24,000 Hz.
- Unit impedance: 25 ohms.
- Maximum input: 0.3 watts.
- High sensitivity can be driven to full volume with very little input.
- Ultra thin diaphragm and samarium cobalt magnet provide fantastic performance with the ultimate in user comfort.
- Extremely comfortable lightweight design — 5 oz. less cord.
- Adjustable headband.
- Comfortable foam-filled ear cushions with cloth earpads.
- Connecting cord: 10 foot coiled cord.

BP ULTRA THIN & LIGHTWEIGHT PROFESSIONAL STEREO HEADPHONE
MODEL SH-95A
REG. $60.00
OUR PRICE $29.95

DESCRIPTION
Uses four rare-earth metal magnet units for each channel to deliver dual dynamic bass transducers and high velocity tweeters.

SPECIFICATIONS
- Frequency response: 15-24,000 Hz.
- High sensitivity — can be driven to full volume with very little input.
- Four separate mylar units deliver new dimension in "Surround Sound" and increase front-to-rear separation for true effect.
- Comfortable foam-filled ear cushions and adjustable headband.
- Ultra thin and lightweight design set for extra comfort — only 7 oz. less cable.
- Connecting cord: 10 foot long cord and standard phone plug.

BP HEADPHONE
MODEL SH-96A
REG. $69.95
OUR PRICE $32.95

DESCRIPTION
Performance rated, high quality headset. Dual headband. Individual slide volume control and 360° swivel-type leathery comfort speakers. Standard 1/4" stereo plug.

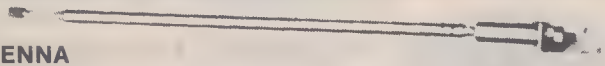
SPECIFICATIONS
- Frequency response: 16-25,000 Hz.
- High sensitivity — can be driven to full volume with very little input.
- Connecting cord: 10 foot long cord and standard phone plug.

BP SLIM SET
MODEL SH-98A
REG. $49.95
OUR PRICE $16.95

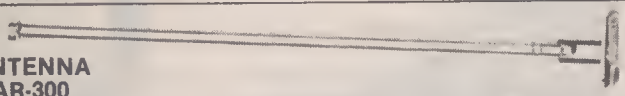
DESCRIPTION
High velocity stereophone with volume controls. Samarium cobalt magnet to drive an extra large diaphragm.

FEATURES
- Sensitivity: 102 dB at 1 kHz.
- Impedance: 30 ohms.
- Frequency response: 15-22,000 Hz.
- Maximum input: 0.5W.
- Uses samarium cobalt magnet to drive ultra thin polymer film speakers assures superb music reproduction and true listening comfort.
- Individual volume controls stereo/monaural switch.
- Tone switch controls for music long listening pleasure.
- Comfortable ear cushions with adjustable headband.
- 10 ft. coiled cord with plug.

ANTENNAS

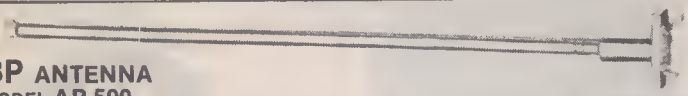


BP ANTENNA
MODEL AR-200
Exact replacement antenna rod for Sony TV sets. 6 section telescoping rod. Sony part number 1-501-065-14. Fully extends 42". Collapsed: 11". **Display package.**
OUR PRICE **$2.75** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-300
Exact replacement antenna rod for GE, Admiral, Magnavox and other TV sets. 4 section telescoping rod. GE part number ET83X3, ET83X03, etc. Fully extends 29". Collapsed: 10-1/4". **Display package.**
OUR PRICE **$1.95** each
10 FOR **$12.00**

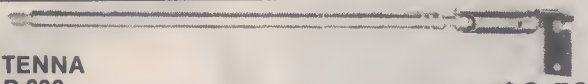
BP ANTENNA
MODEL AR-400
Exact replacement antenna rod for RCA TV sets. 4 section telescoping rod. RCA part number 10E107, 10EB129. Fully extends 39". Collapsed: 10-1/2". **Display package.**
OUR PRICE **$2.50** each
10 FOR **$22.50**



BP ANTENNA
MODEL AR-500
Exact replacement antenna rod for Panasonic, Penney, Quasar, Sanyo, Sears, Sharp and other TV sets. 4 section telescoping rod. Panasonic part number TSA327. Fully extends 39-1/8". Collapsed: 12-3/8". **Display package.**
OUR PRICE **$1.95** each
10 FOR **$15.00**

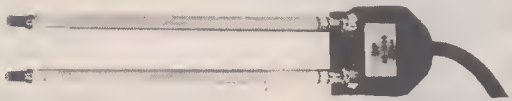
BP ANTENNA
MODEL AR-600
Exact replacement antenna rod for Panasonic, Sony and other TV sets and AM/FM radios. 8 section telescoping rod. Fully extends 39". Collapsed: 8-5/8". Adjusts to any angle for best reception. **Display package.**
OUR PRICE **$2.50** each
10 FOR **$22.50**

BP ANTENNA
MODEL AR-700
Exact replacement antenna rod for Sony, Panasonic, Zenith and other TV sets. 8 section telescoping rod. Fully extends 42". Collapsed: 7-1/8". **Display package.**
OUR PRICE **$2.25** each
10 FOR **$15.00**

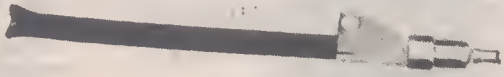


BP ANTENNA
MODEL AR-800
Exact replacement antenna rod for Sony TV sets. 8 section telescoping rod. Sony part number TV92V. Fully extends 42". Collapsed: 9". **Display package.**
OUR PRICE **$2.50** each
10 FOR **$20.00**

BP ANTENNA
MODEL AR-900
Exact replacement antenna rod for Panasonic, Penney, Sharp and other TV sets. 5 section telescoping rod. Panasonic part number TSA129, TSA385-3. Fully extends 39". Collapsed: 9-1/4". **Display package.**
OUR PRICE **$2.75** each
10 FOR **$25.00**

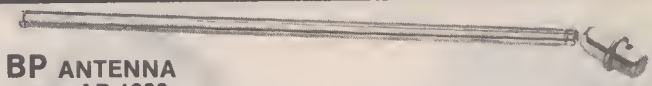


BP ANTENNA
MODEL AR-1000
Exact replacement antenna rod for Sony TV sets. 8 section telescoping rod. Sony part number AN16. Fully extends 43". Collapsed: 7-3/8". **Display package.**
OUR PRICE **$4.95** each
10 FOR **$40.00**

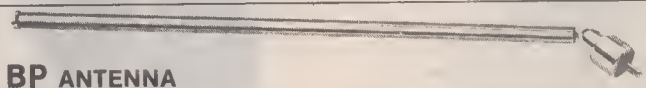


BP ANTENNA
MODEL AR-1100
Exact replacement antenna rod for Zenith TV sets. 5 section telescoping rod. Zenith part number 1-127-01. Fully extends 38". Collapsed: 9-1/4". **Display package.**
OUR PRICE **$2.75** each
10 FOR **$25.00**

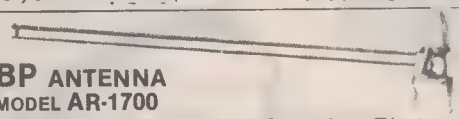
BP ANTENNA
MODEL AR-1200
Exact replacement antenna rod for Panasonic and Quasar TV sets and AM/FM sidemount. 5 section telescoping rod. Panasonic part number TS8108-1. Quasar part number 85C72743A01. Fully extends 38". Collapsed: 9-3/4". **Display package.**
OUR PRICE **$2.00** each
10 FOR **$18.00**



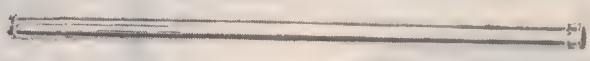
BP ANTENNA
MODEL AR-1300
Exact replacement antenna rod for Zenith TV sets. 5 section telescoping rod. Zenith part number 1-138-03, 1-138-04. Fully extends 47". Collapsed: 11-3/4". **Display package.**
OUR PRICE **$3.25** each
10 FOR **$29.00**



BP ANTENNA
MODEL AR-1400
Exact replacement antenna rod for Zenith TV sets. 6 section telescoping rod. Zenith part number 1-135-02, 1-138-01. Fully extends 47". Collapsed: 11-3/4". **Display package.**
OUR PRICE **$3.25** each
10 FOR **$29.00**



BP ANTENNA
MODEL AR-1700
Exact replacement antenna rod for GE and Sears TV sets. 7 section telescoping rod. Sears part number Sear-1H. Fully extends 41". Collapsed: 7-1/8". **Display package.**
OUR PRICE **$2.50** each
10 FOR **$22.50**

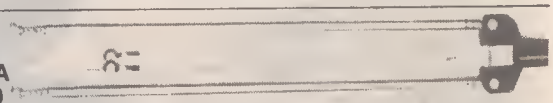


BP ANTENNA
MODEL AR-1800
Exact replacement antenna rod for portable AM/FM and TV for sidemount. 8 section telescoping rod. Fully extends 45". Collapsed: 7". **Display package.**
OUR PRICE **$2.00** each
10 FOR **$15.00**

BP ANTENNA
MODEL AR-1900
Exact replacement antenna rod for Admiral TV sets. 7 section telescoping rod. Admiral part number 69A3491. Fully extends 38". Collapsed: 7-3/4". **Display package.**
OUR PRICE **$3.25** each
10 FOR **$29.00**

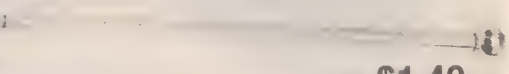
BP ANTENNA
MODEL AR-2100
Exact replacement antenna rod for Sony TV sets. 10 section telescoping rod. Sony part number 1-501-15GXX. Fully extends 43". Collapsed: 7-1/4". **Display package.**
OUR PRICE **$3.50** each
10 FOR **$30.00**

BP ANTENNA
MODEL AR-2200
Exact replacement antenna rod for Sony TV sets. 10 section telescoping rod. Sony part number 1-501-976-21, 1-501-976-22-S. Fully extends 45". Collapsed: 8-1/4". **Display package.**
OUR PRICE **$3.25** each
10 FOR **$29.00**



BP ANTENNA
MODEL AR-2300
Exact replacement antenna rod for Panasonic and Quasar TV sets. 5 section telescoping rod. Panasonic part number TSA81081. Quasar part number 85C72743A01. Fully extends 42". Collapsed: 10-3/4". **Display package.**
OUR PRICE **$5.95** each
10 FOR **$45.00**

BP ANTENNA
MODEL AR-2400
Exact replacement antenna rod and ball for RCA, Zenith, GE and other TV sets. 4 section telescoping rod. Fully extends 38". Collapsed: 10-1/2". **Display package.**
OUR PRICE **$1.25** each
10 FOR **$10.00**



BP ANTENNA
MODEL AR-2500
Exact replacement antenna rod end ball for GE, Zenith, RCA, Admiral and most other TV sets. 5 section telescoping rod. Fully extends 38". Collapsed: 9". **Display package.**
OUR PRICE **$1.40** each
10 FOR **$12.00**

BP ANTENNA
MODEL AR-2700
Exact replacement antenna rod and ball for most TV sets. 7 section telescoping rod. Fully extends 42". Collapsed: 7". **Display package.**
OUR PRICE **$1.50** each
10 FOR **$12.50**

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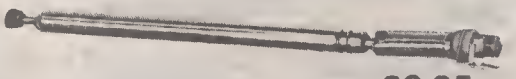


BP ANTENNA
MODEL AR-2800

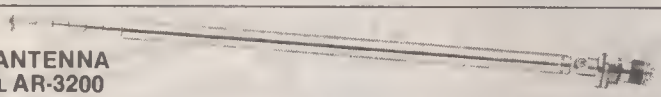
Exact replacement antenna rod for Sony TV sets. 9 section telescoping rod. Sony part number Series#400. Fully extends 35". Collapsed: 7-1/4". **Display package.**

OUR PRICE **$2.95** each
10 FOR **$25.00**

BP ANTENNA
MODEL AR-3100

Exact replacement antenna rod for AM/FM cassette portables. 7 section telescoping rod. Fully extends 26". Collapsed: 6". Fits 7/18" hole size, swivel type base. Replaces Russell PAS1H. **Display package.**

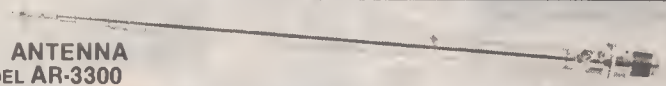
OUR PRICE **$2.95** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-3200

Exact replacement antenna rod for AM/FM cassette portables. 7 section telescoping rod. Fully extends 24". Collapsed: 7". Fits 7/18" hole size, swivel type base. Replaces Russell PAS2H. **Display package.**

OUR PRICE **$2.95** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-3300

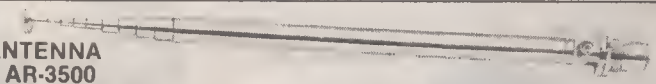
Exact replacement antenna rod for AM/FM cassette portable. 8 section telescoping rod. Fully extends 36". Collapsed: 8-5/8". Fits 7/18" hole size, swivel type base. Replaces Russell PAS3H. **Display package.**

OUR PRICE **$2.95** each
10 FOR **$25.00**

BP ANTENNA
MODEL AR-3400

Exact replacement antenna rod for AM/FM cassette portable. 8 section telescoping rod. Fully extends 38". Collapsed: 6". Fits 1/2" hole size, swivel type base. Replaces PAS4H. **Display package.**

OUR PRICE **$2.95** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-3500

Exact replacement antenna rod for AM/FM cassette portables. 10 section telescoping rod. Fully extends 47". Collapsed: 8-1/2". Fits 9/18" hole size, swivel type base. Replaces PAS5H. **Display package.**

OUR PRICE **$3.25** each
10 FOR **$27.50**

BP ANTENNA
MODEL AR-3600

Exact replacement antenna rod for AM/FM cassette portables. 11 section telescoping rod. Fully extends 80". Collapsed: 6-5/8". Fits 5/8" hole size, swivel type base. Replaces PAS6H. **Display package.**

OUR PRICE **$3.25** each
10 FOR **$27.50**

BP ANTENNA
MODEL AR-3700

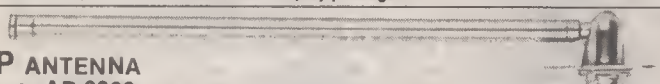
Exact replacement antenna rod for most Sanyo AM/FM cassette portables. 8 section telescoping rod. Fully extends 38". Collapsed: 10-3/4". Fits 3/8" hole size, swivel type base. Replaces almost all Sanyo radios and cassettes. **Display package.**

OUR PRICE **$3.50** each
10 FOR **$25.00**

BP ANTENNA
MODEL AR-3800

Exact replacement antenna rod for AM/FM cassette portables. 5 section telescoping rod. Fully extends 32". Collapsed: 9". Fits 3/8" hole size, swivel type base. Replaces almost all Sanyo radios and cassettes. **Display package.**

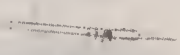
OUR PRICE **$3.50** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-3900

Exact replacement antenna rod for Zenith TV sets. 8 section telescoping rod. Fully extends 36-3/4". Collapsed: 9-3/4". **Display package.**

OUR PRICE **$3.25** each
10 FOR **$28.00**



BP ANTENNA
MODEL AR-4100

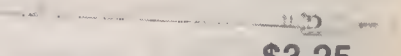
Exact replacement antenna rod for Sharp TV sets. 5 section telescoping rod. Fully extends 35-1/2". Collapsed: 9". **Display package.**

OUR PRICE **$2.95** each
10 FOR **$27.50**

BP ANTENNA
MODEL AR-4200

Exact replacement antenna rod for Magnavox TV sets. 5 section telescoping rod. Fully extends 49". Collapsed: 12". **Display package.**

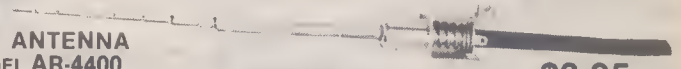
OUR PRICE **$6.98** each
10 FOR **$50.00**



BP ANTENNA
MODEL AR-4300

Exact replacement antenna rod for RCA TV sets. 8 section telescoping rod. Fully extends 48". Collapsed: 11". **Display package.**

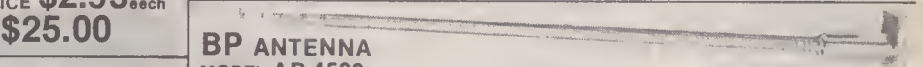
OUR PRICE **$3.25** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-4400

Exact replacement antenna rod for Sanyo TV and other sets. 8 section telescoping rod. Fully extends 41". Collapsed: 6". **Display package.**

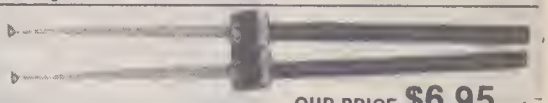
OUR PRICE **$3.95** each
10 FOR **$35.00**



BP ANTENNA
MODEL AR-4500

Exact replacement antenna rod for Monitor TV, Sharp and other sets. 5 section telescoping rod. Fully extends 43". Collapsed: 11". **Display package.**

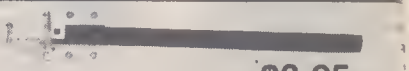
OUR PRICE **$2.95** each
10 FOR **$25.00**



BP ANTENNA
MODEL AR-4600

Exact replacement antenna rod for Teknika and Panasonic TV sets. 7 section telescoping rod. Fully extends 43". Collapsed: 7". **Display package.**

OUR PRICE **$6.95** each
10 FOR **$50.00**



BP ANTENNA
MODEL AR-4700

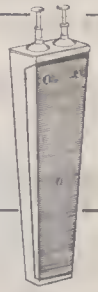
Exact replacement antenna rod for Admiral, Sharp and Airline TV sets. 7 section telescoping rod. Fully extends 40". Collapsed: 7-1/4". **Display package.**

OUR PRICE **$3.25** each
10 FOR **$28.00**

BP UNIVERSAL BEHIND SET VHF INDOOR TV ANTENNA
MODEL AR-250

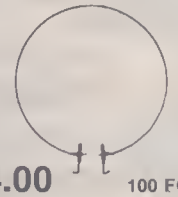
5 section. **Display package.**

OUR PRICE **$2.95** each
10 FOR **$20.00**



BP REPLACEMENT UHF ANTENNA LOOP
MODEL AR-350

Heavy duty plated wire loop with adjustable spring swivel action. Packed for peg-board display. **Display package.**



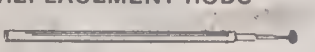
OUR PRICE **49¢** each 10 FOR **$4.00** 100 FOR **$35.00**

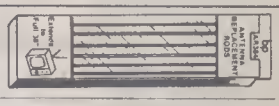
BP UHF BOW-TIE ANTENNA
MODEL AR-360

Clips onto antenna dipole of TV set. Packed for peg-board display.

OUR PRICE **99¢** each 10 FOR **$9.00** 100 FOR **$79.00**

BP REPLACEMENT RODS





Model	Telescoping sections	Extends to	Dia	Price
AR384	4 sections	full 38"	5/16"	$ .75 ea.
AR385	5 sections	full 38"	5/16"	.85 ea.
AR406	6 sections	full 40"	3/8"	.95 ea.
AR427	7 sections	full 42"	1/4"	.95 ea.

• 10 per display package.

TV PARTS

TV FOCUS ASSEMBLY, HIGH VOLTAGE DIVIDER

MODEL GE-FR 10 replaces ECG HI-DIV 3

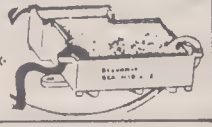
OUR PRICE **$6.95**

SPECIFICATIONS
- Resistance: 300 megohms.
- Tapped Resistence: 50 megohms.
- Replacement For: Admiral 61A66-10, GE GEFFR-10, Sylvenie ECG HI-DI-3, Zenith 63-9893, 63-9894, 83-9895, 83-9898, 63-9897, 83-9898, 83-9898-01, 83-9898-02, 63-9898-03, 83-9898-04.

TV FOCUS ASSEMBLY

MODEL GE-FR9 replaces ECG HI-Div 2

OUR PRICE **$6.95**

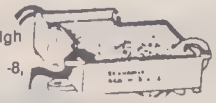


Substrete resistor 24.4 megohm high voltege tepped at 46.5 ohm. Exact replacement for: Warwick (Sears) 13-9-4, 13-10-4, 13-11-4, 13-12-4, 13-18-4, 13-19-4 and 13-20-4.

TV FOCUS ASSEMBLY

MODEL GE-FR8 replaces ECG HI-Div 1

OUR PRICE **$6.95**



Substrete resistor 240 megohm high voltage tapped et 40 megohm. Replacee: Admirel 750C871-1 thru -8, 81C88-1 thru -10, Curtis Methes 08A181-001 thru -003, Magnavox 230199-1, -2 and -4 and others.

EXACT REPLACEMENT KINODE

MODEL R12-C

OUR PRICE **$6.95** each

2 FOR **$12.00**

SPECIFICATIONS
- Style: E-32.
- Function: High voltage rectifier.
- Repleces: Zenith No. 103-215. Motorola No. 48D89723A01. Electrochrome No. 28-31-00.
- This high voltage (45kV) pulse rectifier with corona ring, is presently being used in hybrid and solid state large screen B&W, color TV eets.

COLOR BURST CRYSTAL

MODEL CX-3

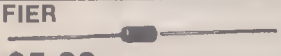
OUR PRICE **$1.80** each

4 FOR **$6.00**

For color TV. 3.58 MC (3579.545 KC). For replacement in almost all color TV sets.

SILICON RECTIFIER

MODEL S-250



OUR PRICE 25 FOR **$5.00**

100 FOR **$15.00** 200 FOR **$25.00**

SUPER SPECIAL

2.5 emp—1 KV equivalent to 1R-250, Mallory M2.5, HEP 170. IN1585A, IN1588A, IN490 series.

HEAVY DUTY FOCUS RECTIFIER

MODEL R-6000

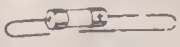
OUR PRICE **95¢** each

10 FOR **$9.00** 20 FOR **$15.00**

- 8.5 KV.

B + BOOST RECTIFIER

MODEL S-1200



OUR PRICE **90¢** each 10 FOR **$7.00**

Replacement for Admiral, Andrea, CGE, Curtis Methes, Delco, Emerson, GE, Heath, Magnavox, Packard Bell, RCA color TV.

SILICON RECTIFIER

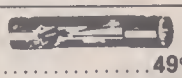
MODEL S-300

3 amp—1 KV.

OUR PRICE 25 FOR **$7.50**

FUSE TYPE LAMPS

MODEL 8V-300mA

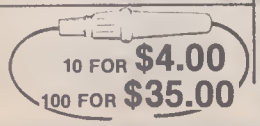


1-9 Qty. ..... 49¢ ea.
10-99 Qty. ..... 39¢ ea.
Buy one box of 100 for $35.00

FUSE HOLDER

MODEL FH-1

OUR PRICE **50¢** each



10 FOR **$4.00**
100 FOR **$35.00**

Fuse holder with 18" wire for all etanderd 1/4" fuses. Peg packeged.

SAFETY COMPONENT CAPS

BUY ANY PARTICULAR SAFETY CAP PRICED AT

OUR PRICE **$3.75** each

5 FOR **$17.50**

10 FOR **$30.00**

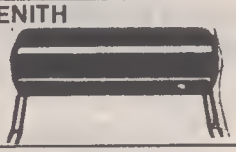
MAGNAVOX MODEL		GENERAL ELECTRIC MODEL	
250883-11	.0088-1600V	EP25X55	.0082-1200V
250883-13	.0098-1800V	EP25X80	.0051-1200V
250883-17	.0815-1200V	EP25X75	.0075-1200V
250883-19	.0195-1200V	EP25X78	.0068-1200V
		EP25X69	.0056-1200V
		EP25X79	.0047-1200V

PHILCO/SYLVANIA MODEL		SEARS MODEL	
45-41506-4	.0082-1600V	20-887-1	.0068-1600V

SAFETY CAP FOR ZENITH

MODEL 800-860

OUR PRICE **$3.50** each

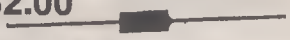


5 FOR **$15.00**

RECTIFIER DIODES

MODEL 1N4000 series

OUR PRICE 10 FOR **$2.00**



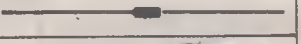
Model

1N4001	50 volt.	1N4005	600 volt.
1N4002	100 volt.	1N4006	800 volt.
1N4003	200 volt.	1N4007	1000 volt.
1N4004	400 volt.		

SWITCHING DIODES

MODEL 1N4148

OUR PRICE 10 FOR **$1.00**



100 FOR **$8.00**

DUAL DIODE

MODEL SD4

OUR PRICE 10 FOR **$5.90** any assort.

Leade are 20 guage wire common cathode. Equivalent to P15, GE-6GC1, ITT-K1615, IRC-D4, IR-DD04.

DUAL DIODE

MODEL SD5

OUR PRICE 10 FOR **$5.90** any assort.

Series connected. Equivalent to P18, GE-8GD1, ITT-K1616, IRC-D5, IR-DD05.

BLUE-LATERAL PURITY MAGNET ASSEMBLY

MODEL MA-90

OUR PRICE **$2.25** each

5 FOR **$10.00**

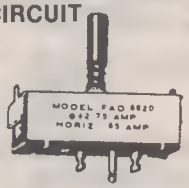
DESCRIPTION

Designed to universelly meet the requirements of color TV sets using 15 through 25 inch 90° color picture tubes.

SPECIFICATIONS
- Blue gun-up or blue gun-down operation.
- Easy one finger adjustment of blue control.
- Thin-line construction.
- Flame retardent polypropylene.

COLOR TV UNIVERSAL CIRCUIT BREAKER Dual Purpose

MODEL FAD



OUR PRICE **$2.90** each

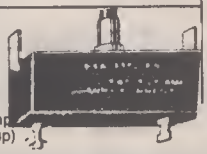
10 FOR **$25.00**

- B + Breek current.
- 2.75 amp horizontal.
- Break current .65 amp.

Replaces RCA No. 120784 and others for RCA chassis No.'e CTC22B and CTC22C.

CIRCUIT BREAKERS

OUR PRICE



10 FOR **$8.90** any assortment

FA2 (2 emp) FA3 (3 emp) FA4 (4 amp)
FA5 (5 amp) FA8 (8 amp) FA7 (7 amp)

FUSE HOLDER

MODEL FS-50

OUR PRICE 2 FOR **$1.50**

10 FOR **$6.90**

DESCRIPTION

Holds 1/4" x 1-1/4" fuses. Can be used on panels up to 5/18" thick. Has bayonet type knob. No screwdriver required.

TV SNAP-ON FUSE HOLDER

MODEL 529

OUR PRICE 2 FOR **$1.00**

DESCRIPTION

Snap fuse clip over burned out fuse. Insert new fuse without soldering.

ALLIGATOR CLIPS

MODEL CP-365

OUR PRICE **$2.95** per pkg.

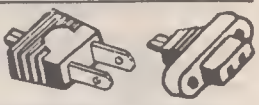
DESCRIPTION

Alligator clip with screw terminel and molded handle. Color: Black and red. Net weight: 20 gr. 20 pcs. per package.

CHEATER CORD

MODEL C-60

OUR PRICE



69¢ each

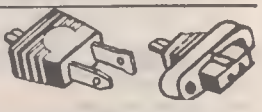
10 FOR **$4.90**

FEATURES
- 8 foot cord.
- 18/2 SPT-1.
- Brown.
- Standard.
- Standard w/ears.

CHEATER CORD

MODEL PC-60

OUR PRICE



69¢ each

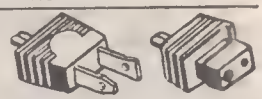
10 FOR **$4.90**

FEATURES
- 6 foot cord.
- 18/2 SPT-1.
- Brown.
- Polarized.
- Polarized w/ears.

CHEATER CORD

MODEL PL-60

OUR PRICE



79¢ each

10 FOR **$5.90**

FEATURES
- 8 foot cord.
- 18/2 SPT-1.
- Brown.
- Polarized.
- Polarized C clip.

CHEATER CORD

MODEL L-60

OUR PRICE

79¢ each

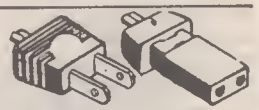
10 FOR **$5.90**

FEATURES
- 6 foot cord.
- 18/2 SPT-1.
- Brown.
- Standard.
- Standard C clip.

CHEATER CORD

MODEL LC-6

OUR PRICE



99¢ each

10 FOR **$7.90**

FEATURES
- 8 foot cord.
- 18/2 SPT-1.
- Brown.
- Standard.
- Standard C clip Long nose.

SONY 6 FOOT POWER CORD

MODEL AC-224

OUR PRICE **99¢** each

10 FOR **$7.90**

FEATURES
- Poly with header.
- For Sony, radios, tape recorders, etc.

PANASONIC 6 FOOT POWER CORD

MODEL AC-225

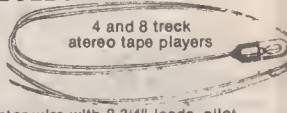
OUR PRICE **99¢** each 10 FOR **$7.90**

- Poly with header.
- For Panasonic, radios, tape recorders, etc.

SUB-MINIATURE BULBS

MODEL E-13

OUR PRICE **50¢** each



10 FOR **$3.50**

12 volt 75 mA. Two conductor wire with 8-3/4" leeds, pilot lemp ueed in channel selector or sliding rule ecale indicator on UHF television, Hi-Fi, radio.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

GE 5 x 5 SILICON HV TRIPLER
MODEL ECG-500

OUR PRICE $12.95 each

FEATURES
- 10 KV input peak.
- 25 KV et 2 mA max. output.
- Noryl case.
- 25 In HV leed with anode connector.

REPLACEMENT CROSS REFERENCE

Admiral
93A91-2
93N9-1

Fleetwood
66A96-1
66F-054-1
66F-054-2
66F-054-3
66F-054-4
66F-112-1

Magnavox
530153-1
530165-1
530165-2
530165-3
530165-5

Sylvania
32-33057-2
32-33094-1
32-33094-3
32-33094-4

Teledyne/Packard Bell
72162-1

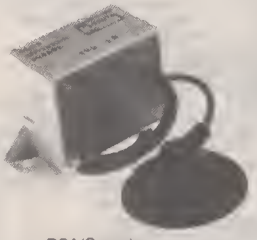
RCA
135691
137646

Generel Electric
EP62X41
EP62X61
73C182051

Varo
MH955BO1
MH919
MH920G01
PTC603
TVM778

GE 6 x 6 SILICON HV TRIPLER
MODEL GE-519 ECG-517

OUR PRICE $24.95



FEATURES
- 11 KV Input peek.
- 30 KV at 2.25 mA mex. output.
- Alkyd case.
- 25 In. HV lead with 1-3/4" anode connector.

REPLACEMENT CROSS REFERENCE

RCA
135691
137031
137643
137646
137893
138019
1464607-1
1464607-2
1464607-3
1464607-4
1464607-5
1464607-6

RCA
1464984-1
1484984-2
1466865-1

Heath
57-83

RCA/Canede
1466860-1
1826065-1
1826065-2

Varo
MH984A01
MH915C01

GE SELENIUM HV TRIPLER
MODEL GE-520 ECG-501, SK-3089

OUR PRICE $22.50

FEATURES
- 8.6 KV input peek.
- 27.5 KV (non-load) mex. output.
- HV tripler with 2500 pf built-in capacitor.
- 27.5 In. HV lead with enode connector.

REPLACEMENT CROSS REFERENCE

Fleetwood
66X0045-001
66X45-1

Zenith
212-108
212-109
212-110

Varo
38A4148-000
38A4148-001
38A4157-000
46-86330-3
489752-007

PTC602
S88569
TVK-33
TVK-55
TVM-108

GE 5 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-521 ECG-523, ECG-528A

OUR PRICE 5 AND UP $12.95 each

FEATURES
- 10 KV input peak.
- 30 KV et 2 mA max. output.
- Noryl case.
- 26 in HV leed with anode connector.

REPLACEMENT CROSS REFERENCE

Zenith
212-141-02
212-141-03
212-141-04

Sylvenia
32-39091-3
32-39091-7
32-39091-8

GE 8 x 8 SILICON HV QUADRUPLER
With Focus Bleeder
MODEL GE-522 ECG-538

OUR PRICE $27.75

FEATURES
- 8 KV input peak.
- 30 KV at 1.5 mA max. output.
- Durey or Alkyd case.
- 12 In HV leed with anode connector.

REPLACEMENT CROSS REFERENCE

Sylvania
32-33094-2
32-33094-5

Vero
MH353
MH988A03

Admiral
93D91-3

RCA
146364-1

GE 5 x 5 SILICON HV TRIPLER
MODEL GE-523 ECG-522, SK-3303

OUR PRICE $12.95 each

FEATURES
- 10 KV input peak.
- 25 KV at 2 mA max. output.
- Durey or Alkyd case.
- 27 In HV lead with connector.

REPLACEMENT CROSS REFERENCE

Admiral
93D91-1
93D91-2
93D91-3
93D91-4
93D91-5
93D91-6

Electrohome
28-35-01

Fleetwood
66F112-1
66F112-2
66F181-1

General Electric
1084
1086

Magnavox
530153-1
530165-1
530165-2
530165-3
530165-4

Sylvania
32-33094-2
32-33094-5
32-33094-6
32-33704-1
32-33704-2
32-35894-3
32-35894-4
32-35894-6X7

Zenith
212-139-03
212-142
212-142-01

Varo
MH913
MH919
MH931

Teledyne/Packard Bell
72162-1
72162-2

Warwick
86-106-3

Wells-Gardner
66X0060-001
66X0060-002

GE 6 x 6 SILICON HV TRIPLER
MODEL GE-527 ECG-500A, SK-3304

OUR PRICE $14.95

FEATURES
- 12 KV input peak.
- 30 KV at 2 mA max. output.
- Noryl case.
- 27 in. HV lead with anode connector.

REPLACEMENT CROSS REFERENCE

Admiral
93D96-1
93D96-2
93D96-3

Andree
A95-5314

Packerd Bell
72162-2

Fleetwood
66F-054-3
66F-054-4

Zenith
212-128
212-129
212-130
212-133
212-135
212-136
212-139
212-139-01
212-139-02

Varo
MH987A01

Electrohome
28-32-0X

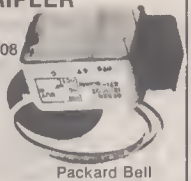
Philco
76-14327-2
76-14327-3
76-14327-4
76-14327-5
76-14327-6
76-14327-7
76-14327-8

Sylvania
32-33057-3
32-33057-4
32-33057-5
32-35894-1
32-35894-5

Advent
800-000-025

GE 5 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-528 ECG-523A, SK-3306

OUR PRICE $12.95



FEATURES
- 12 KV Input peak.
- 30 KV at 1.5 mA max. output.
- Noryl case.
- 26 in. HV lead with enode connector.

REPLACEMENT CROSS REFERENCE

Curtis Mathes
14B348-1
14B348-2
14B348-3
14B348-4
14B348-5

Fleetwood
66F159-1
66F159-2
66F159-3

Zenith
212-141
212-141-01
212-145
212-145-01
212-145-02

Varo
MH1203
MH1204
MH1205

Packard Bell
72180

Phillips/Canada
3107-108-40501

Sylvania
32-39091-1
32-39091-2
32-39091-4
32-39091-5
32-39091-6
32-39091-9

GE 6 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-529 ECG-529, SK-3307

OUR PRICE $22.95

FEATURES
- 12 KV input peak.
- 30 KV at 2 mA max. output.
- Noryl case.
- 30 in. HV lead with anode connector.

REPLACEMENT CROSS REFERENCE

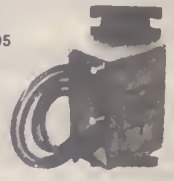
Magnavox
530165-6
530165-11
530165-13
530165-17

Quesar
N2A
N2A-1
N2A-2

Warwick
86-127-3
MH1222A01

GE 6 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-534 ECG-534, SK-3305

OUR PRICE $16.95



FEATURES
- 12 KV input peak.
- 30 KV at 2 mA max. output.
- Noryl case.
- 26 in. HV lead with enode connector.

REPLACEMENT CROSS REFERENCE

Magnavox
530165-8
530165-10
530165-15
530165-16

GE 6 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-535 ECG-535

OUR PRICE $19.95

FEATURES
- 12 KV input peak.
- 30 KV at 2 mA max. output.
- Noryl case.
- 26 in. HV lead with anode connector.

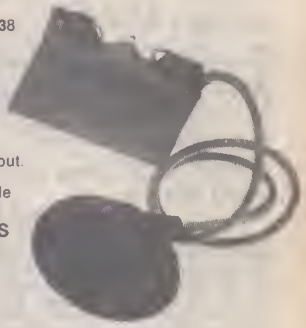
REPLACEMENT CROSS REFERENCE

Magnavox
530165-14
530165-18

Varo
MH1222A03

GE 6 x 5 SILICON HV TRIPLER
With Focus Bleeder
MODEL GE-537 ECG-538

OUR PRICE $15.95



FEATURES
- 10 KV input peak.
- 30 KV at 2 mA max. output.
- Durey or Alkyd cese.
- 21 In. HV lead with anode connector.

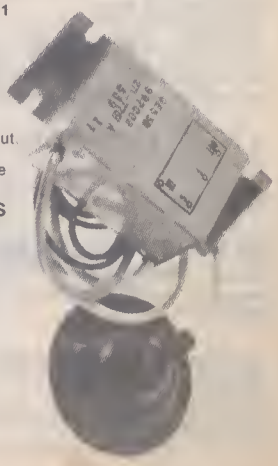
REPLACEMENT CROSS REFERENCE

Admiral
93D99-2
93D99-3
93D99-4

Vero
MH1030A01

GE 6 x 6 SILICON HV TRIPLER
MODEL GE-539 ECG-521

OUR PRICE $19.95



FEATURES
- 12 KV input peak.
- 25 KV at 2 mA max. output.
- Noryl case.
- 19 in. HV lead with enode connector.

REPLACEMENT CROSS REFERENCE

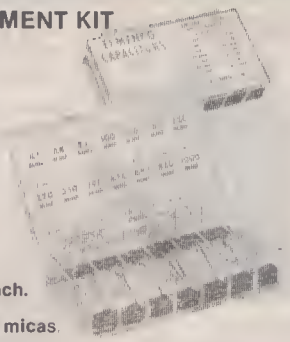
Zenith
212-128
212-129
212-130
212-133
212-135
212-136

RESISTOR KITS

ARCO HIGH VOLTAGE REPLACEMENT KIT

MODEL 18

OUR PRICE **$12.95** each



DESCRIPTION

An assortment of the most popular Elmenco VDM type hi-voltage dipped Silvered Mica Capacitors used in TV circuits.

CAPACITANCE

47pF	270pF
68pF	330pF
82pF	390pF
100pF	470pF
150pF	680pF
180pF	820pF
220pF	1000pF

Kit #18 contains 2 each. All ±5% tolerence. All 1000 VDCW VDM micas.

ARCO BY-PASS KIT

MODEL 50

OUR PRICE **$12.95** each

FEATURES

- All values 600 VDCW.
- 125°C operating temperature.
- Moisture proof.
- Long life.
- High reliability.
- Low cost.
- Miniaturized.

CONTENTS

5—.001		5—.01	600V
4—.0022	600V	5—.0022	600V
5—.0033	600V	5—.0033	600V
5—.0047	600V	5—.0047	600V
5—.0068	600V	5—.1	600V

Dipped Mylar Paper Kit #50 contains 5 each of the 10 most popular replacement capacitors. ±10% tolerance—all 600 volt, packaged in a durable, compartmented plastic box for easy selection and pricing.

MID AMERICA RESISTOR KIT

Free Cabinet

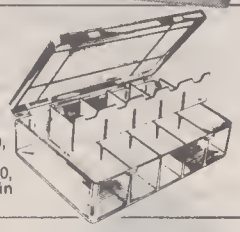
MODEL KT-7240 OUR PRICE **$24.95**

300 Cabon Film 1/2 watt, 5 & 10 resistors.
Packed in 15 drawer Akro-Mills box. 10 each of 30 different always-popular 1/2 watt 10% and 5% carbon film resistors. Typical assortment includes: 4.7 ohm, 15, 22, 56, 120, 160, 430, 470, 680, 1.1 K, 1.6, 3, 3.3, 3.6, 6.2, 6.6, 22, 39, 43, 62, 66, 91, 100, 120, 200, 270, 360, 470, 620 K.

RESISTOR KIT Free Cabinet

MODEL RWK-2

OUR PRICE **$17.95**

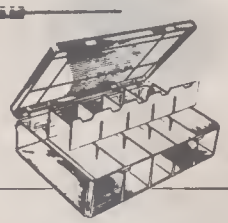


Carbon Film Flameproof Resistors 1/2 Watt; 5% Tolerance.
Contains: The following resistance values:
10 ohms, 15, 22, 27, 33, 47, 66, 82, 100, 150, 160, 220, 270, 330, 390, 470, 560, 660; 1K ohm, 1.2, 1.5, 1.6, 2.2, 3.3, 3.9, 4.7, 5.6, 6.6, 6.2, 10, 12, 15, 22, 27, 33, 39, 47, 56, 100, 120, 150, 220, 270, 470 K; 1 MEG, 2.2, 10. Plus other current popular values within specified value range. 300 pcs.

RESISTOR KIT Free Cabinet

MODEL RWK-3

OUR PRICE **$17.95**



Carbon Film Flameproof Resistors 1/4 Watt; 5% Tolerance
Contains: The following resistance values:
10 ohms, 15, 22, 27, 33, 39, 47, 51, 66, 62, 100, 150, 220, 270, 330, 390, 470, 510, 660, 620, ohms; 1 K ohm, 1.2, 1.5, 1.6, 2.2, 2.7, 3.0, 3.3, 3.9, 4.7, 5.1, 5.6, 6.6, 6.2, 10, 12, 15, 20, 22, 27, 33, 47, 51, 56, 66, 62, 100, 120, 150, 220, 470 K; 1 MEG, 1.5, 3.3, 4.7, 10. Plus other current popular values within specified value range. 300 pcs.

WORKMAN

2 WATT RESISTOR

MODEL 2W-40 OUR PRICE **$24.95**

40 2-watt low resistance wirebound resistors

5 WATT RESISTORS

MODEL 5W-40 OUR PRICE **$24.95**

40 assorted values or 5-watt square ohm resistors on refillable display card.

10 WATT RESISTORS

MODEL 10W-40 OUR PRICE **$24.95**

40 assorted values 10-watt square ohm resistors on refillable display card.

25 WATT RESISTORS

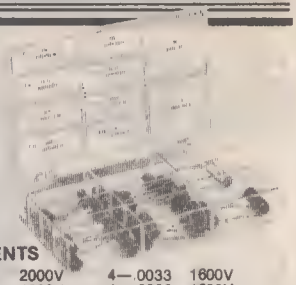
MODEL 25W-20 OUR PRICE **$24.95**

20 assorted values of 25-watt square ohm resistors on refillable display card.

ARCO HIGH VOLTAGE TV KIT

MODEL 30

OUR PRICE **$10.95** each



FEATURES

- Rated at 1600VDCW to meet critical color circuit requirements.
- Rated at exact original equipment capacitance value to assure proper operation.
- Operate to 125°C.
- Moisture proof for maximum reliability.
- Easy to install. Up to 50% smaller than comparable types.
- All tolerances ±10%.

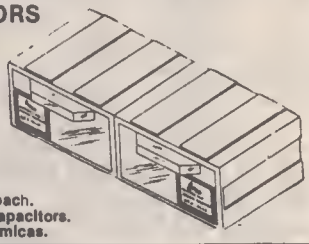
CONTENTS

2—.001	2000V	4—.0033	1600V
2—.001	1600V	4—.0066	1600V
4—.0022	1800V	4—.0082	1600V
2—.0027	1600V	4—.01	1600V
2—.003	1800V	2—.015	1600V

ARCO DISC CERAMIC CAPACITORS

MODEL C-120A

OUR PRICE **$19.95** each FREE CABINET



CAPACITANCE

5pF	100pF	500pF
10pF	120pF	660pF
22pF	150pF	1000pF
39pF	220pF	1500pF
47pF	270pF	2000pF
50pF	330pF	3900pF
68pF	390pF	5000pF
82pF	470pF	10000pF

Kit Contains 5 each. A total of 120 capacitors. All 1000 VDCW micas.

BP MINI CAPACITOR KITS

Free Akro-Mills Cabinet Same Cabinent as given in MODEL RWK-2

Kit -MR-5000 Contents	Kit -MR-2500 Contents	Kit -MR-1500 Contents
5- 1 MFD-50 volts	5- 2 MFD-25 volts	5- 5 MFD-15 volts
5- 2 MFD-50 volts	5- 5 MFD-25 volts	5- 10 MFD-15 volts
5- 5 MFD-50 volts	5- 10 MFD-25 volts	5- 25 MFD-15 volts
5- 10 MFD-50 volts	5- 25 MFD-25 volts	5- 50 MFD-15 volts
5- 25 MFD-50 volts	5- 50 MFD-25 volts	5- 100 MFD-15 volts
5- 50 MFD-50 volts	5- 100 MFD-25 volts	5- 250 MFD-15 volts
5- 100 MFD-50 volts	5- 250 MFD-25 volts	5- 500 MFD-15 volts
5- 250 MFD-50 volts	5- 500 MFD-25 volts	5-1000 MFD-15 volts
5- 500 MFD-50 volts	5-1000 MFD-25 volts	5-2000 MFD-15 volts
5-1000 MFD-50 volts	5-2000 MFD-25 volts	
$14.95	**$12.95**	**$12.95**

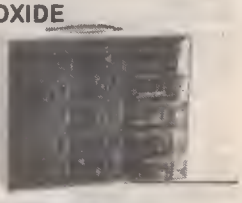
AXIAL LEAD KITS Free Akro-Mills Cabinet

Kit -MX-5000 Contents	Kit -MX-2500 Contents	Kit -MX-1500 Contents
5- 1 MFD-50 volts	5- 2 MFD-25 volts	5- 5 MFD-15 volts
5- 2 MFD-50 volts	5- 5 MFD-25 volts	5- 10 MFD-15 volts
5- 5 MFD-50 volts	5- 10 MFD-25 volts	5- 25 MFD-15 volts
5- 10 MFD-50 volts	5- 25 MFD-25 volts	5- 50 MFD-15 volts
5- 25 MFD-50 volts	5- 50 MFD-25 volts	5- 100 MFD-15 volts
5- 50 MFD-50 volts	5- 100 MFD-25 volts	5- 250 MFD-15 volts
5- 100 MFD-50 volts	5- 250 MFD-25 volts	5- 500 MFD-15 volts
5- 250 MFD-50 volts	5- 500 MFD-25 volts	5-1000 MFD-15 volts
5- 500 MFD-50 volts	3-1000 MFD-25 volts	5-2000 MFD-15 volts
5-1000 MFD-50 volts	3-2000 MFD-25 volts	
3-2000 MFD-50 volts		
$14.95	**$12.95**	**$12.95**

MID AMERICA 180 PIECE CARBON OXIDE GLASS POWER RESISTORS

MODEL KT-7208

OUR PRICE **$24.95** each



Packed in 15 drawer Akro-Mills box. 5 each of 36 popular ohmegas. 2, 3, 4, 5 and 7 watt Corning Glass (or equivalent) type resistors. Cover popular TV, color and FM values.

RESISTOR KITS

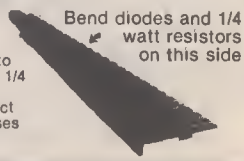
OUR PRICE **$1.95** each 6 FOR **$9.90**

Most popular values:
KIT 1: 100 pcs. 1/2 watt per poly pack.
KIT 2: 40 pcs. 1 watt per poly pack.
KIT 3: 40 pcs. 2 watt per poly pack.
Popular values assorted per kit.

SPEEDY BEND

The lead forming tool your company can afford at each bench.

MODEL PD-801 OUR PRICE **$2.95**



DESCRIPTION

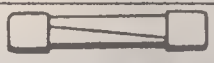
Bend one component or a hundred in less time than it takes to set up and run any automatic bender. One tool forms jumper, 1/4 and 1/2 watt resistor, and diode leads. Graduations in 0.05 increments on 0.4 to 1.5 inch centers enable user to easily select proper slot. A speedy Bend increases production and decreases rework to printed circuits.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BP CAPACITORS

40 MFD x 450 VOLTS $.90 each 10 FOR $7.50
47 MFD x 350 VOLTS $.75 each 10 FOR $5.00
80 MFD x 450 VOLTS ..... $1.50 each 10 FOR $12.00
100 MFD x 450 VOLTS ..... $1.75 each 10 FOR $15.00
200 MFD x 200 VOLTS ..... $1.25 each 10 FOR $10.00
200 MFD x 300 VOLTS ..... $1.75 each 10 FOR $15.00
200 MFD x 175 VOLTS ..... $ .80 each 10 FOR $6.50

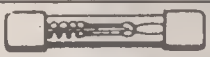
AG 'NORMAL BLO' FUSES



Voltage Rating 250

AG-1/4	Amp— 50 pcs. for $6.00	AG-1 1/2	Amp— 50 pcs. for $6.00
AG-3/8	Amp— 50 pcs. for $6.00	AG-2	Amp— 50 pcs. for $6.00
AG-1/2	Amp— 50 pcs. for $6.00	AG-3	Amp— 50 pcs. for $6.00
AG-3/4	Amp— 50 pcs. for $6.00	AG-4	Amp— 50 pcs. for $6.00
AG-1	Amp— 50 pcs. for $6.00	AG-5	Amp— 50 pcs. for $6.00

MD 'SLO-BLO' FUSES



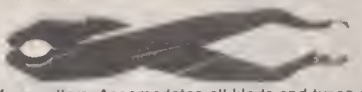
Voltage Rating 250

MD-1/4	Amp— 50 pcs. for $10.00	MD-1 1/2	Amp— 50 pcs. for $10.00
MD-3/8	Amp— 50 pcs. for $10.00	MD-2	Amp— 50 pcs. for $10.00
MD-1/2	Amp— 50 pcs. for $10.00	MD-3	Amp— 50 pcs. for $10.00
MD-3/4	Amp— 50 pcs. for $10.00	MD-4	Amp— 50 pcs. for $10.00
MD-1	Amp— 50 pcs. for $10.00	MD-5	Amp— 50 pcs. for $10.00

DUO-TONGS

MODEL 9356

OUR PRICE $2.50



Shock proof, moldad nylon univaraal fuaa pullars. Accomodatas all kinds and types of fuses, including houaehold screw-in plug typa and industrial cartridga fusas up to 3/4" or 100 amp capacity. Non-conductiva, inflammabla and virtually unbraakabla.

TYPE Q BLOCKS With Quick Connect Terminals

MODEL 350-329

OUR PRICE 89¢ each 10 FOR $8.00

MODEL 350-330

OUR PRICE 99¢ each 10 FOR $9.00

FEATURES
- Typa Q 3AG blocka may ba providad with 1/4" quick connact terminala.
- Mounting Hola: .142"/.147" diamatar.
- Clipa: Nickel pleted spring brese.
- Tarminals: Platad braas.

PILOT LIGHTS

Model	Our Price Per Box	Model	Our Price Per Box
PR2	$2.50	130	$3.00
12	$3.50	159	$3.00
44	$2.50	194	$2.50
46	$2.50	222	$3.50
47	$2.50	239	$6.95
51	$2.50	259	$3.50

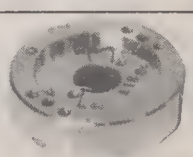
10 per box

VIDEO CASSETTE HEAD

MODEL VEH-0070

OUR PRICE $59.95

DESCRIPTION
VHS vidao tepa head usad in Panasonic, JVC, RCA and othars.



COLOR BRIGHTNER AUTOFORMER TYPE

70° Shell Base
MODEL CR-200
OUR PRICE $7.95 each

90° Button Base
MODEL CR-250
OUR PRICE $6.95 each
5 FOR $30.00

Sony 8 Pin Type
MODEL CR-260
OUR PRICE $5.95 each
Dasignad for Sony Trinitron

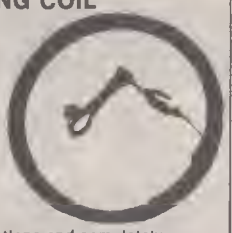
THORDARSON PROFESSIONAL DEGAUSSING COIL

MODEL 9317

OUR PRICE $27.95 each 2 FOR $50.00

FEATURES
- Durabla moldad high-impact casa.
- High quality momantary switch-currant only whan you naad it.
- Will laat a lifatima. Dagaussing coil, 13" dia.

DESCRIPTION
Eliminates stray magnatic fialds in color TV aets as raquirad prior to purity adjustmant. Indaspanaabla in all color TV aarvice work. Coil is mada to standard industry apacifications and complataly ancloaed in moldad plaatic. Supplied with 8' cord and momantary contact awitch which parmits da-anargizing of coil without pulling plug. Attractiva hang-up packaga.



GE RAYTHEON

6GH8 10 For $22.50 — 6JE6 50 For $225.00 — 50 For $80.00 — 6BK4 50 For $225.00

Model	Our Price	Model	Our Price	Model	Our Price
1B3	10 for 40.00	6CG6	10 for 45.00	6AW6	10 for 55.00
1K3	10 for 40.00	6DW4	10 for 35.00	6CQ7	10 for 30.00
1V2	10 for 26.50	6EA6	10 for 40.00	10CW5	10 for 35.00
1X2	10 for 45.00	6EH7	10 for 40.00	12AX7	10 for 35.00
2AS2/2BV2	10 for 40.00	6EJ7	10 for 40.00	12BY7	10 for 35.00
2AV2	10 for 30.00	6EM7	10 for 50.00	12GN7/12HG7	10 for 55.00
3A3	10 for 35.00	6GF7	10 for 50.00	17BF11	10 for 60.00
3AT2	10 for 35.00	6GH6	10 for 22.50	17JZ6	10 for 40.00
3GK5	10 for 36.00	6GK5	10 for 50.00	21GY5	10 for 50.00
3HA5	10 for 36.00	6GM6	10 for 45.00	21JS6	10 for 70.00
3HQ5	10 for 50.00	6GX6/6GY6	10 for 35.00	21JZ6	10 for 55.00
5GH6	10 for 42.00	6J10/6Z10	10 for 60.00	23Z9	10 for 55.00
6BA11	10 for 50.00	6JB6	10 for 60.00	24JE6	10 for 75.00
6BK4	10 for 55.00	6JC6	10 for 45.00	33GY7	10 for 65.00
6CE3/6CG3	10 for 35.00	6JS6	10 for 65.00	36KD6	10 for 75.00
6CG7	10 for 28.00	6JE6	10 for 70.00	36HE7	10 for 65.00
		6KD6	10 for 70.00		

SEMI-CONDUCTORS

Model	Price each	Price 10 for
106	$ .75	$ 5.00
123A	.75	5.00
124	1.75	15.00
126	.80	7.00
129	1.00	9.00
130	1.95	16.50
165	4.70	45.00
152	.90	6.00
153	1.00	9.00
154	1.40	13.00
157	1.00	9.00
159	.60	5.00
162	5.25	50.00
163A	4.95	45.00
175	1.50	14.00
196	1.00	9.00
197	1.50	12.00

TRANSISTOR

MODEL 2SC1306K
(raplaces ECG-238) 10 FOR $20.00

Model	Price each	Price 10 for
196	1.50	13.00
230	3.95	35.00
231	4.25	40.00
291	1.95	15.00
292	1.95	16.00
310	4.95	45.50
375	1.75	15.00
199	.50	4.00
236	5.25	49.00
276	8.95	60.00
277	6.95	60.00
2SC1306	2.75	22.50
AN214	1.75	15.00
AN315	2.50	20.00
TA7205P	1.75	15.00
1056	7.00	60.00

MINIATURE ALUMINUM ELECTROLYTIC

RADIAL LEAD

Type	Mfd.	Volts	Our Price
MR5-15	5	15	$.12
MR10-15	10	15	.12
MR25-15	25	15	.12
MR50-15	50	15	.16
MR100-15	100	15	.18
MR250-15	250	15	.16
MR500-15	500	15	.25
MR1000-15	1000	15	.25
MR2000-15	2000	15	.25
MR2-25	2	25	.12
MR5-25	5	25	.12
MR10-25	10	25	.12
MR25-25	25	25	.15
MR50-25	50	25	.15
MR100-25	100	25	.15
MR250-25	250	25	.25
MR500-25	500	25	.35
MR1000-25	1000	25	.40
MR2000-25	2000	25	.50
MR1-50	1	50	.15
MR2-50	2	50	.15
MR5-50	5	50	.15
MR10-50	10	50	.20
MR25-50	25	50	.25
MR50-50	50	50	.25
MR100-50	100	50	.30
MR250-50	250	50	.40
MR500-50	500	50	.50
MR1000-50	1000	50	.60
MR2000-50	2000	50	.60

MIN. 10 PCS. PER TYPE

AXIAL LEAD

Type	Mfd.	Volts	Our Price
MX5-15	5	15	$.15
MX10-15	10	15	.15
MX25-15	25	15	.20
MX50-15	50	15	.25
MX100-15	100	15	.30
MX250-15	250	15	.35
MX500-15	500	15	.40
MX1000-15	1000	15	.50
MX2000-15	2000	15	.60
MX2-25	2	25	.15
MX5-25	5	25	.15
MX10-25	10	25	.20
MX25-25	25	25	.25
MX50-25	50	25	.30
MX100-25	100	25	.35
MX250-25	250	25	.40
MX500-25	500	25	.50
MX1000-25	1000	25	.60
MX2000-25	2000	25	1.00
MX3000-25	3000	25	1.20
MX4000-25	4000	25	1.35
MX5000-25	5000	25	1.50
MX1-50	1	50	.15
MX2-50	2	50	.15
MX5-50	5	50	.20
MX10-50	10	50	.25
MX25-50	25	50	.30
MX50-50	50	50	.40
MX100-50	100	50	.50
MX250-50	250	50	.60
MX500-50	500	50	.80
MX1000-50	1000	50	1.25
MX2000-50	2000	50	1.50
MX5000-50	5000	50	2.50

FUSE WIRE

MODEL F-24

OUR PRICE 2 Pkg. $1.00

DESCRIPTION
(5 placas—3' long). No. AWG 24 Soldereze coated wira. Used in Zanith and other sats as a fuse.

MODEL F-26 OUR PRICE 2 Pkg. $1.00

DESCRIPTION
(5 placaa—3' long). No. AWG 24 Soldaraza coetad wira. Used in RCA end othar aats es a fuaa.

GENERAL ELECTRIC • RAYTHEON PRICE SHEET SUPERSEDES ALL PREVIOUS PRICE SCHEDULES.

Model	Price
OZ4/OZ4A	6.00
1AD2A	5.00
1AY2A	9.90
1BC2A	5.75
1BH2A	3.50
1BY2A	4.95
1DG3	6.50
1DK29	4.00
1G3GTA/1B3GT	5.00
1J3 Use 1K3A	
1K3A/1J3	5.25
1L6	12.00
1R5	6.00
1S2A/DY87	6.00
1S5	3.50
1T4	5.50
1U4	6.00
1U5	4.50
1V2	3.75
1X2C/1BX2	5.50
2AF4B Uee 2DZ4	
2AH2 Use 2BU2/2AS2A	
2AS2A Uee 2BU2/2AH2	
2AV2	4.00
2BA2	2.50
2BN4A	3.50
2BU2/2AS2A/2AH2	5.50
2CN3B	3.50
2CW4	15.00
2CY5	5.00
2DS4	15.00
2DZ4/2AF4B	5.00
2EG4	12.00
2ER5	3.00
2FH5	4.00
2FQ5A Use 2GK5	
2FS5	6.50
2GK5/2FQ5	5.00
2GW5	2.50
2HA5	5.00
2HQ5	4.50
3A3C	4.95
3AF4B Use 3DZ4	
3AT2A	5.00
3AU6	4.50
3AV6	2.50
3AW2A	4.95
3BC5/3CE5	4.50
3BL2A	6.00
3BM2A	4.00
3BN2A	4.00
3BN6	4.00
3BS2A or	
3BT2A Use	
3BW2/3BS2B/3BT2A	
3BU6 Uee 3GS6	
3BW2/3BS2B/3BT2A	5.50
3BZ6	4.50
3CA3A	4.20
3CB6/3CF6	4.75
3CE5 Uee 3BC5	
3CF6 Use 3CB6	
3CN3B	6.00
3CS6	3.50
3CU3A	6.50
3CY3 Uee 3DB3/3CY3	
CY5	4.50
3CZ3A	6.50
3DA3	5.50
3DB3/3CY3	5.50
3DC3	6.00
3DF3	6.00
3DG4	6.50
3DHH13	5.00
3DJ3	5.95
3DK6	4.50
3DR3	15.00
3DS3	15.00
3DT6	4.00
3DZ4/3AF4B	4.50
3EH7/XF163	4.00
3EJ7/XF164	7.00
3FS5	6.00
3GK5	5.00
3GS8/3BU6	4.75
3HA5/3HM5	5.25
3HQ5	6.50
3HS6	5.00
3JC6A	6.00
3KT6	5.00
4AU6	5.50
4AV6	5.00
4BC6	5.00
4BL8/XCF60	5.00
4BQ7A/4BZ7	6.00

Model	Price
4BS6	3.50
4BU6 Use 4GS8	
4BZ6	4.75
4BZ7 Use 4BQ7A	
4CB6	3.75
4CS6	5.50
4DE6	3.20
4DT6	5.50
4EH7	4.95
4EJ7	4.95
4ES8	5.00
4GJ7	5.75
4GK5	5.25
4GM6	3.95
4GS7	6.00
4GS6/4BU6	4.00
4GX7	5.00
4HA5/PC900	4.75
4HA7/4HC7	5.50
4HC7 Use 4HA7	
4HM6	4.25
4HQ5	5.00
4HS6	5.95
4HT6	6.00
4JC8A	5.75
4JD6	5.75
4JH6	5.95
4KE6	6.95
4KT6	7.25
4LJ6	6.00
4MK6	4.80
4RHH2 Use	
4BQ7A/4BZ7	
5AM6	5.75
5AQ5	6.50
5AR4/GZ34	10.00
5AS4A Uee 5U4GB	
5AU4 Uee 5V3/5AU4	
5BC3	7.50
5BR6 Use 5FV6/5CL8A	
5CG6	6.50
5CL8A Use 5FV6/5BR6	
5CQ6	3.00
5DJ4	3.75
5EA6	7.50
5EW6	6.50
5FG7	6.50
5FV6/5BR6/5CL8A	6.50
5GH6A	6.00
5GJ7	5.00
5GM6	5.25
5GS7	7.50
5GX7	5.50
5HA7	4.00
5HB7	3.50
5HG6/LCF66	6.40
5HZ6	5.25
5J6	4.50
5JK6	4.50
5JL6	3.25
5JW6	5.25
5KD6	6.00
5KE6	7.00
5LJ6	5.50
5MB6	10.00
5M-HH3 Uee 5J6	
5U4GB/5AS4A	4.95
5U6	4.95
5U9/LCF201	6.00
5V3/5AU4	4.50
5V4GA	12.00
5Y3GT	6.50
5Z3	12.00
6AB4	6.50
6AC7	7.50
6AC10	5.50
6AD10	9.00
6AF4	5.50
6AF4A Use 6DZ4	
6AF9	6.25
6AF11	6.00
6AG5	5.50
6AG9	6.50
6AG11	6.00
6AH6	11.00
6AH9	9.50
6AK5/EF95	7.00
6AK6/EABC60	9.00
6AK10	9.00
6AL3/EY66	6.50
6AL5	4.50
6AL11	6.25
6AM6A	7.95
6AN4	6.00
6AN6A	6.00

Model	Price
6AQ5A/6HG5	5.50
6AQ6	5.00
6AQ7GT	5.00
6AQ6/ECC85	6.95
6AR11	7.00
6AS5	4.50
6AS6	6.50
6AT6	3.00
6AT6A	6.50
6AU4GTA	9.00
6AU5GT	6.50
6AU6A	4.75
6AU6A	9.00
6AV5GA	7.50
6AV6	4.90
6AW6A	6.00
6AX3	4.00
6AX4GTB	4.90
6AX5GT	9.80
6AX6 Use 6U8A/6KD8/	
6AY3	5.00
6AY11	5.00
6AZ6	11.00
6B10	6.50
6BA6/EF93	4.50
6BA7	11.00
6BA6A	7.00
6BA11	6.00
6BC4	12.00
6BC5/6CE5	5.00
6BC7	6.00
6BC8/6BZ8	7.00
6BD11	7.00
6BE3/6BZ3	5.25
6BE6	4.50
6BF6	4.00
6BF11	7.00
6BG6GA	12.00
6BH6	9.00
6BH6	5.00
6BH11	6.00
6BJ3	3.50
6BJ6	6.75
6BJ7	3.90
6BJ6	7.00
6BK4C/6EL4A	6.00
6BK5	5.00
6BK7B	7.00
6BL7GTA	10.00
6BL6/ECF80	4.00
6BM8/ECL82	7.75
6BN4A	5.00
6BN8/6KS6	6.00
6BN6	7.00
6BN11	6.00
6BQ5/EL84	5.00
6BQ5P	12.00
6BQ6GTB/6CU6	7.00
6BQ7A/6BZ7	6.00
6BR6A Use 6FV6A 6BS3A	3.90
6BS6	7.00
6BU6	6.75
6BV6	7.95
6BV11	7.00
6BW3 Use 6CG3 6BW4	4.50
6BW11	6.75
6BX6/EF60	4.00
6BX7GT	9.00
6BY5GA	7.00
6BY6	6.00
6BY6	4.75
6BZ3 Use 6BE3	
6BZ6	5.50
6BZ7 Use 6BQ7A	
6BZ8 Use 6BC8	
6C4	7.00
6C5	10.00
6C9	11.00
6CA4	6.00
6CA5	5.00
6CA7/EL34	9.50
6CB6A/6CF6	4.50
6CD6GA	12.00
6CE3/6CD3	4.50
6CE5 Use 6BC5	
6CF6 Use 6CB6A	
6CG3/6BW3	4.75
6CG7/6FQ7	3.95
6CG6A	5.50
6CH3	4.75
6CJ3/6DW4B	4.75
6CK3	4.75
6CL3	4.75
6CL6	9.00
6CL8A	9.00

Model	Price
6CM3	6.50
6CM6	6.65
6CM7	5.95
6CM6	6.00
6CN7	5.00
6CQ4 Use 6DE4	
6CQ6	6.50
6CS6	7.00
6CS7	7.00
6CT3	5.00
6CU5	5.00
6CU6	6.00
8CW4	15.00
6CW5/EL86	5.00
6CX6	7.00
6CY5	6.75
6CY7	4.50
6CZ5	6.60
6DB5	6.50
6DC6	6.00
6DE4/6CQ4	7.00
6DE6	4.50
6DE7	6.00
6DG6GT Uee 6W6GT	
8DK3	10.00
6DK6	6.00
6DL3	9.00
6DM4 Use	
(6DA4A/6DM4A	
6DN3	5.00
6DN7	6.00
6DQ3	6.50
6DQ4	4.50
6DQ5	10.00
6DQ6B/6GW6	7.50
6DR7	7.70
6DS4	15.00
6DS5	4.00
6DT3	7.00
6DT5	5.00
6DT6	4.50
6DT6A	3.42
6DT6	4.50
6DU3	7.00
6DV4	15.00
6DW4B Uee 6CJ3	
6DW5	6.00
6DX6/ECL64	6.00
6DZ4/6AF4A	7.00
6E5	19.00
6EA7 Use 6EM7	
6EA6	5.00
6EB6 Use 6GN6/6EB6	
6EC4A/EY500A	7.50
6EH4A	9.00
6EH5	6.75
6EH7/EF163	5.00
6EH6	5.00
6EJ7/EF164	5.00
6EM5	6.75
6EM7/6EA7	7.75
6EN4	9.00
6ER5	4.50
6ES5	4.00
6ES6/ECC169	12.00
6EU7	6.00
6EU6	4.80
6EV5	6.00
6EW6	6.50
6EW7	6.00
6EZ5	7.90
6F6GT	12.00
6FD7	7.50
6FG6/EM64	6.00
6FG7	9.00
6FJ7	6.70
6FM7	6.75
6FQ5A Use 6GK5	
6FQ7 Use 6CG7	
6FS5	9.00
6FV6	4.50
6FV6A/6BR6A	6.00
6FW5	5.00
6FY5	5.00
6FY7	5.00
6G11	7.00
6GB3A Use 6BQ6GTB/	
6CU6 6GB5/EL504	7.50
6GB6 Use 6DQ6B/	
6GW6 6GC5	6.95
6GE5	7.50
6GF5	4.00
6GF7A	6.95
6GH6A	3.25
6GJ5	7.00

Model	Price
6GJ7/ECF801	5.75
8GK5/6FQ5A	6.00
6GK6	5.00
6GK17 Use 6AU4GTA	
6GM5	7.00
6GM6	7.00
6GN6/6EB6	7.00
6GS7	7.25
6GT5	12.00
6GU5	5.00
6GU7	5.25
6GV5	6.50
6GW6 Uee	
6DQ6B/6GW6	
6GW6/ECL86	6.95
6GX6 Use 6GY6	
6GX7	5.25
6GY5	9.00
6GY6/6GX6	4.75
6GY6	9.00
6H6	15.00
6HA5/6HM5	6.50
6HA5-S	6.50
6HA6 Use 6HB6	
6HB5	7.00
6HB6/6HA6	5.00
6HB7	5.50
6HD7/6HJ7	4.72
6HE5 Use 6JC5/6JB5	
6HF5	7.00
6HF6	6.50
6HG5 Uee 6AQ5A	
6HG8/ECF86	4.95
6HJ7 Use 6HD7	
6HK5	5.75
6HL8	7.75
6HM5 Uee 6HA5	
6HM6	4.00
6HQ5	6.75
6HS5	10.40
6HS6	6.90
6HS6	6.45
6HU6/EM67	6.95
6HV5A	11.00
6HZ6	4.75
6J5	12.00
6J6A	6.95
6J7	15.00
6J10/6Z10	6.00
6J11	9.00
6JA5	6.75
6JB6	6.00
6JC5/6JB5/6HE5	6.50
6JC8A	6.00
6JC8	5.00
6JD5	11.00
6JD6	6.75
6JE6C/6LQ6	10.00
6JE6	5.80
6JF6	9.75
6JG5	4.00
6JG6A	6.75
6JH5	9.50
6JH6	5.00
6JH6	9.00
6JK5	13.00
6JK6	6.75
6JM6	7.00
6JN6	7.00
6JN6	4.95
6JQ6	5.00
6JR6	9.00
6JS6C	10.00
6JT6A	6.75
6JT6	7.50
6JU6	9.00
6JU6A	6.50
6JV6	6.75
6JW6/ECF602	5.00
6JY6	5.25
6JZ6	5.75
6JZ6	6.75
6K6GT	7.00
6KA6	7.00
6KD6	10.00
6KD6 Use 6U6A/6AX6	
6KE6	7.00
6KG6A/EL519	12.00
6KM6	12.00
6KN6	10.75
6KS6 Uee 6BN6	
6KT6	5.75
6KT6	7.00
6KU6	6.00
6KV6A	11.00

GENERAL ELECTRIC • RAYTHEON PRICE SHEET SUPERSEDES ALL PREVIOUS PRICE SCHEDULES.

Model	Price
6KV6	6.90
6KY6A	6.60
6KZ8	5.10
6L6GC	7.70
6LB6	9.60
6LB6	5.50
6LC8	3.60
6LE6	6.60
6LF6	9.75
6LF6	6.60
6LH6A Use 6LJ6A	
6LJ6A/6LH6A	6.50
6LJ6	5.60
6LM6A	6.05
6LN6	3.60
6LQ6 Use 6JE6C	
6LQ6	5.50
6LR6	9.50
6LR6	7.75
6LT6	5.16
6LU6	6.20
6LX6	9.75
6LX6/LCF802	4.30
6LY6	4.75
6M11	6.50
6MB6	5.90
6MD6	7.50
6ME6	9.75
6ME6	6.60
6MF6	7.50
6MG6	6.00
6MHH3 Use 6J6A	
6MJ8/6LQ6/6JE6C	9.75
6MJ6	6.00
6MK6A	6.00
6ML6	6.50
6MN6	6.00
6MQ6	6.30
6MU6	6.00
6MV6	6.20
6R-HH2 Use	
6BC6/8BZ6	
6S4A	7.05
6SA7	10.40
6SC7	13.50
6SH7	11.00
6SJ7	11.00
6SJ7GT	9.60
6SL7GT	9.50
6SN7GTB	6.40
6SQ7	9.90
6SQ7GT	6.00
6T6A	5.00
6T10	7.40
6U6A/6AX6/6KD6	4.95
6U10	5.00
6V3A	4.90
6V4/EZ60	5.70
6V6 Use 6V6GTA	
6V6GTA	5.75
6W4GT	5.30
6W6GT/6DG6GT	6.90
6X4	4.50
6X5GT	5.60
6X6	6.00
6X9/ECF200	6.00
6Y9	6.00
6Z10 Use 6J10	
7AU7	3.00
7EY6	5.50
7GS7	6.00
7GV7	6.00
7HG6/PCF86	6.90
7KY6	6.10
6AC9	6.50
6AC10	5.60
6AL9	9.75
6AR11	9.20
6AU6	5.10
6AW6A	6.25
6B8	9.50
6B10	5.60
6BA6A	3.30
6BA11	7.40
6BM11	6.25
6BN6	3.00
6BQ5	4.40
6BQ11	7.00
6BU11	7.70
6CB11	6.00
6CG7/6FQ7	3.75
6CS7	5.75
6CW5	4.30
6EB6 Use 6GN6	
6EM5	5.75

Model	Price
6ET7	5.60
6FQ7 Use 6CG7	
6GJ7/PCF601	5.10
6GN6/6EB8	4.40
6GU7	3.80
6JU6A	3.95
6JV6	6.00
6KA6	4.40
6KR6	6.00
6LC6	4.10
6LT6	5.15
9A6/PCF60	4.30
9AH9	7.50
9AM10	6.30
9AQ6	6.30
9AU7	4.40
9GH6A	5.10
9GV6	7.30
9JW6/PCF60	4.00
9KX6	7.00
9KZ6	2.50
9ML8	5.50
9MN6	6.20
10CW5/LL66	4.00
10DE7	6.60
10DX8/LCL84	4.40
10EG7	5.70
10EW7	4.70
10GF7	6.60
10GK6	5.75
10GN6	5.50
10GV6	4.75
10HF6	5.70
10JA5	6.90
10JA6	4.00
10JT6	7.50
10JY6	4.95
10KR8	6.50
10KU6	4.95
10LB6	3.75
10LY6	5.95
10LZ6	4.00
10T10	7.00
10Z10	7.50
11AF9	11.00
11AR11	5.50
11BM6	7.50
11BQ11	6.00
11BT11	6.50
11CA11	6.60
11CH11	9.75
11DS5	6.60
11FY7	5.80
11HM7	6.80
11JE6	4.00
11KV6	7.00
11LQ6	6.60
11LT6	3.50
11MS6	5.65
11Y9/LFL200	7.50
12AB5	6.00
12AC10A	6.50
12AD6	4.90
12AE6A	4.90
12AE10	7.75
12AF3	4.05
12AL5	7.00
12AL11	7.00
12AQ5	5.00
12AT6	4.50
12AT7/ECC61	4.50
12AU6	5.00
12AU7A/ECC82	3.95
12AV5GA	5.00
12AV6	4.00
12AV7	5.50
12AX3	3.25
12AX4GTB	2.60
12AX7A/ECC63/7025	5.00
12AY3A/12BS3A	4.25
12AZ7A	5.00
12B4A	5.75
12BA6	3.75
12BE3	5.25
12BE6	4.40
12BF6	3.60
12BF11	7.75
12BH7A	4.95
12BQ6GTB/12CU6	4.05
12BR7	7.75
12BT3	3.00
12BV7 Use	
12BY7A/12DQ7	
12BV11	9.00
12BW4	5.00

Model	Price
12BY7A/12BV7/12DQ7	4.50
12BZ7	4.50
12C5/12CU5	6.00
12CA5	4.50
12CL3	5.50
12CR6	4.00
12CT3	9.75
12CU5 Use 12C5	
12DB5	3.50
12DQ6B/12GW6	6.50
12DQ7 Use	
12BY7A/12BV7/	
12DT5	3.60
12DT6	5.40
12DW4A	6.00
12DW7	6.00
12ED5	4.50
12FQ7	4.35
12FX5	4.40
12GB7 Use	
12DQ6B/12GW6	
12GE5	7.00
12GN7A/12HG7	5.50
12GT5	4.00
12HG7 Uee 12GN7A	
12HL7	6.00
12JB6	7.70
12JF5	9.00
12JN6	3.65
12JN6	3.25
12JQ6	6.00
12JT6A	5.60
12L6GT	3.40
12MD6	6.20
12SA7	7.80
12SA7GT	7.60
12SG7	7.05
12SJ7	9.75
12SK7	10.25
12SK7GT	10.25
12SL7GT	6.50
12SN7GTA	6.50
12SQ7GT	9.60
12T10	10.20
12W6GT	6.00
12X4	4.00
13DR7	6.00
13EM7	6.60
13FD7	6.00
13FM7	5.50
13GB5/XL500	6.30
13GF7	6.80
13J10/13Z10	6.00
13JZ8	5.60
13V10	9.00
13Z10 Use 13J10	
14BL11	9.75
14BR11	6.60
15AF11	6.75
15BD11A	7.50
15CW5/PL84	5.80
15DQ6/PCL84	5.25
15FM7 Use 13FM7	
15FY7	4.20
15KY6A	6.60
15MF6	7.30
16A6/PCL82	6.00
16AK9	9.75
16AQ3/XY66	5.50
16GK6	4.00
16GY5	4.95
16LU8A	6.75
17AB10/17X10	7.00
17AX3	3.75
17AX4GTA/17DM4A	3.50
17AY3A/17BS3A	5.50
17BE3/17BZ3	5.50
17BF11	7.80
17BR3/17RK19	7.50
17BS3 Use	
17AY3A/17BS3A	
17BW3	6.00
17BZ3 Use 17BE3	
17C5/17CU5	6.00
17C9	6.50
17CK3	4.00
17CT3	5.00
17DE4	3.50
17DM4A Uee	
17AX4GTA	
17DQ6B/17GW6	7.75
17DW4A	5.50
17GE5	5.00
17GJ5	7.00
17GT5	6.30

Model	Price
17GV5	5.50
17GW6 Use 17DQ6B	
17JB8	7.00
17JF6	7.75
17JM6	6.00
17JN6	7.00
17JQ6	6.25
17JZ8	5.25
17KV6A	9.00
17X10 Use 17AB10	
17Y9	9.75
17Z3	4.00
16AJ10	4.75
18FW6A	3.50
16FX6A	4.00
16FY6A	3.50
16GB5	7.70
16GD6	4.00
16GV6/PCL805	6.00
19AU4GTA	6.00
19CG3	5.00
19CL8A Uee 19JN6	
19DE3	6.00
19DK3	5.50
19DQ3	6.00
19EA6	4.50
19FX5	4.00
19GQ7	4.25
19KG6	4.50
19MR9 Use 16FM6A	
19T6	6.00
20AQ3	6.00
20LF6	9.75
21GY5	6.65
21HB5A	6.25
21JS6A Use 23JS6A	
21JV6	5.25
21JZ6	6.65
21KA6	7.00
21KQ6	6.25
21LG6	9.50
21LR6	6.50
21LU6	6.50
22BH3	3.50
22BW3	5.00
22DE4	6.00
22JF6	6.95
22JG6	9.00
22JR6	9.00
22JU6	9.00
22KM6	9.50
22KV6A	6.66
23JS6A	6.50
23Z9	6.65
24BF11	6.00
24JE6A/24LQ6	9.50
24JZ6	5.50
24LQ6 Use 24JE6	
25AV5GA	6.00
25AX4GT	6.00
25BB14	6.00
25BQ6GTB/25CU6	3.25
25C5	7.00
25CG3	6.00
25CK3	6.00
25CT3	3.50
25CU6 Use 25BQ6GTB	
25DK3	6.00
25DN6	4.50
25E5	7.75
25EH5	6.00
25F5A	5.00
25HX5	10.75
25JZ6	6.25
25L6GT/25W6GT	7.75
25W6GT Use 25L6GT	
25Z6GT	6.60
26HU5	9.90
26LW6	10.00
26LX6	10.00
27GB5/PL504	7.15
29KQ6	11.00
29LE6	9.70
30AE3/PY88	6.05
30JZ6	7.75
30KD6	6.30
30MB6	9.00
31JS6C	9.00
31LQ6	9.50
31LR6	7.25
31LZ6	9.90
32ET5A	4.00
33GT7	7.50
33GY7A	6.00
33JV6	4.00

Model	Price
34CE3/34CD3	5.25
34DK3	7.75
34R3	4.00
35B5	4.00
35C5	5.00
35EH5	4.50
35L6GT	5.50
35LR6	9.50
35W4	3.60
35Z5GT	5.50
36AM3B	3.90
36KD6/40KD8	9.90
36LW6	10.50
36MC6	9.90
36HE7	9.00
36HK7	9.00
40KD6 Use 36KD6	
40KG6A/PL519	11.00
42EC4/PY500A	7.00
42KN6	9.50
50A1	11.00
50B5	4.50
50C5	5.00
50EH5	6.50
50GY7	10.20
50HC6	3.50
50HK6	4.50
50JY6	5.00
50L6GT	7.50
53HK7	6.50
60FX5	4.80
80	7.00
6973	6.00
7025 Use 12AX7A/ECC83	
7027A	10.50
7169	6.00
7199	6.00
7355	11.50
7543	5.00
7591A	7.50
7695	6.00
7668	7.50
7668P (match pair)	30.00
8417	12.00
6417P (match pair)	39.00

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

TELEPHONES

COMDIAL TONE DIAL® TELEPHONE

NEW!

MODEL 2125

OUR PRICE

$49.95

DESCRIPTION

Comdial's new 2125 desk telephone features contemporary styling with redial and hold features. The small size and attractive appearance makes it the perfect phone for office or home. The 2125 comes with Comdial's two-year warranty.

FEATURES

- SureTouch® Dial — stability of tone output frequency and level is ensured by reliable solid-state crystal controlled components.
- Built-in polarity guard protects against system generated or accidental line polarity reversals.
- Contemporary Style—attractive style and color to enhance any decor.
- Redial—allows the user to easily recall the last number dialed. Simply press the Redial button, ideal for repeating a call to busy number.
- Electronic Hold—retains a call while going on hook temporarily and provides a visual reminder. Useful when a call is suspended on one telephone and continued from another on the same line.

COMDIAL SLENDERET® II WITH DIALER

MODEL 4230

OUR PRICE **$59.95**

FEATURES

- Dial and disconnect button in handset.
- Phone line powered illuminated dial.
- Last number redial button.
- Hold button.
- Eight-number dialer.
- Electronic ringer with hi/lo/off switch.
- Desk/wall mountable.
- Almond.
- Tone/pulse switchable.

SLENDERET® II WITH DIALER & TWO LINES

MODEL 4330-C

OUR PRICE **$69.95**

FEATURES

- Two-line capacity.
- Conference button to have a three-way conversation.
- dial and disconnect button in handset.
- Phone line powered illuminated dial.
- Last number redial.
- Hold button.
- Eight-number dialer.
- Electronic ringer with hi/lo/off switch.
- Desk/wall mountable.
- Almond.
- Tone/pulse switchable.

4330-C

COMDIAL SLENDERET® II WITH DIALER & SPEAKERPHONE

MODEL 4430

OUR PRICE **$89.95**

FEATURES

- Built-in speaker phone with speaker and microphone in base.
- Mute button with LED indicator.
- Speaker volume control.
- Dial and disconnect button in handset.
- Phone line powered illuminated dial.
- Last number redial button.
- Hold button.
- Eight-number dialer with 11-digit memory.
- Three color coded emergency buttons.
- Index for dialer in base.
- Universal desk/wall mountable.
- Fully modular.
- Electronic ringer with hi/lo/off switch.
- Color: Almond.
- All features work in both tone or pulse.

COMDIAL SPEAKERPLUS® WITH DIAL

MODEL 4510

OUR PRICE **$49.95**

FEATURES

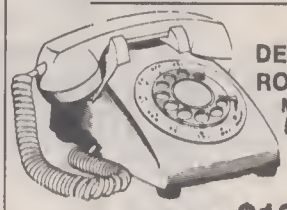
- Adjunct speakerphone with dial to originate calls.
- Mute button with LED indicator.
- Last number redial.
- Tone/pulse switchable.
- Auxiliary jack for phone.
- Auxiliary power jack.
- On/off button with LED indicator.
- Desk/wall mountable.

CEAC Remanufactured Phones!

CEAC remanufactured telephones meet or exceed specifications for new telephones. Each instrument is completely disassembled. All components are cleaned or replaced (as necessary). Then the phone is completely rewired and the plastic is repainted, buffed or replaced. Finally, each instrument is subjected to a series of five comprehensive performance tests.

All CEAC remanufactured telephones are FCC registered. Each is equipped with a modular line cord, ready to plug in and use. One year warranty.

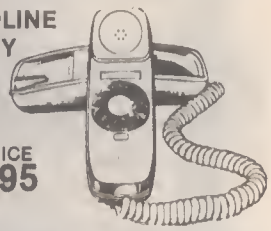
*Colors available: White, Ivory, Brown.



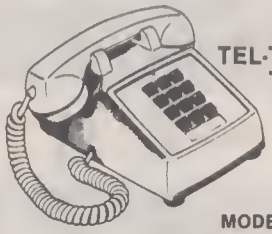
DESK ROTARY MODEL 500

OUR PRICE **$19.95**

TRENDLINE ROTARY MODEL 200



OUR PRICE **$29.95**

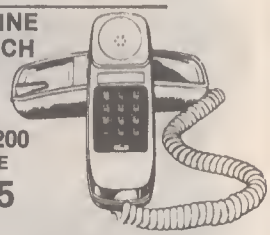


DESK TEL-TOUCH TOUCH TONE

MODEL 2500

OUR PRICE **$34.95**

TRENDLINE TEL-TOUCH TOUCH TONE

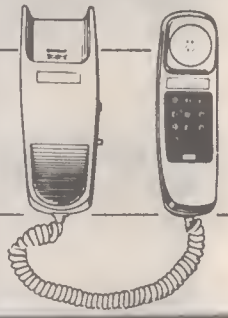


MODEL 2200

OUR PRICE **$39.95**

TRENDLINE WALL PHONE TOUCH TONE

MODEL 2254 OUR PRICE **$39.95**



COMDIAL VOICE ESPRESS™ 41

MODEL VX-41B

OUR PRICE **$249.95**

FEATURES

- Intergrated speakerphone/dialer.
- 41-memory dialer.
- Chain dialing. • Mic mute.
- Last number redial.
- Auto-redial.
- Auto end timed pause.
- Electronic lock.
- TAP/hookflash.
- Clock with alarm.
- Slide out directory.
- Electronic ringer with hi/lo/off switch.
- Desk/wall mountable.
- Tone/pulse switchable.

MODEL 205056-02

OUR PRICE **$69.95**

DESCRIPTION

Optional key strip for multi-line capability.

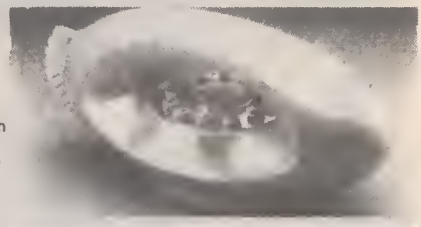
COMDIAL GENIE®

MODEL T-8300 PHONE

OUR PRICE **$69.95**

FEATURES

- Dual frequency electronic ringer with hi/lo/off switch.
- Colors: Pearl, Brown, Antique White.
- Tone dial only.



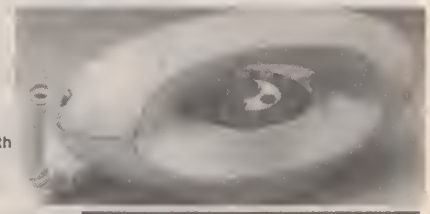
GENIE® PLUS

MODEL T-8350

OUR PRICE **$79.95**

FEATURES

- Continuously illuminated dial.
- Emergency "one-number" dialer.
- Last number redial button.
- Hold button with audible alert.
- Dual frequency electronic ringer with hi/lo/off switch.
- Pearl.
- Tone dial only.



FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

LINEAR COMMUMICATIONS PAGE COMMAND™

MODEL PACOM-2 OUR PRICE $169.95 NEW!

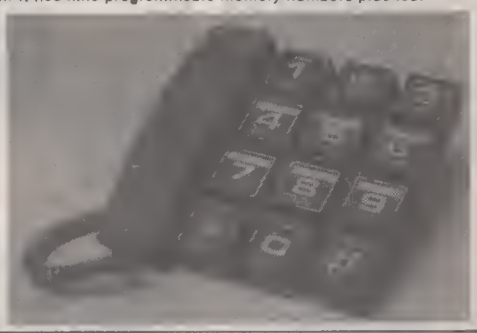
DESCRIPTION
PAGE COMMAND can be applicable for any home. Beep your children to come home. The bedridden can beep a family member or neighbor. Panic beeper for retirees, baby sitter, etc. Instant Communication. Keep in touch with key people. When an intrusion occurs the pager will beep you. It can also beep you when your smoke detector goes off, doorbell buzzes or phone rings.

FEATURES
- Many uses: Homes, Schools, Industry, Hospitals, Hotels/Motels, Restaurants.
- Special Security Features: Intrusion alert. Beep you, or your neighbor in your absence.
- Complete System - Transmitter plus 2 Pocket Pagers.
- Transmission Range: Up to ¾ mile (Antenna Included).
- Easy Installation — Just plug it in.

WEBCOR JUMBO BUTTON™ TELEPHONE WITH MEMORY

MODEL 768SW OUR PRICE $49.95 NEW!

DESCRIPTION
Webcor Zip's jumbo button telephone is a fun phone for young and old. The style is contemporary and compliments any decor. It has nine programmable memory numbers plus last number redial. Convenient personal memory number directory log on button with clear plastic covering. Pulse/Tone dial mode selector switch. It works on all dialing systems and is perfect for alternative telephone services or any other interactive computer telephone service. It has three position ring level selector, mute button and is fully modular. It can be desk or wall mounted and is FCC approved. This phone is also hearing aid compatible.



AUDIOVOX TWO PIECE CORDED TELEPHONE

MODEL AT-115
REG. $59.95
OUR PRICE $29.95

DESCRIPTION
Bell ringer on/off. Mute. LED flickers to indicate number is being dialed. Audible dial tone. Last number redial.

AUDIOVOX CORDED TELEPHONE WITH AM/FM RADIO, DIGITAL/ALARM CLOCK

MODEL AT-6
REG. $120.00
OUR PRICE $35.00

DESCRIPTION
Pushbutton electronic phone, full alarm with snooze. Lighted slide rule dial scale. Bell ringer on/off. Last number redial. Mute. Audible dial tone and redialing pulses.

UNITECH DATA PHONE COMPUTER COMMUNICATION

MODEL TMS-1A OUR PRICE $99.95 NEW!

DESCRIPTION
The Unitech Data Phone lets you hook your computer with an intergrated telephone modem system to a universal interface for computer communications by telephone. It is also an attractive full featured functioned telephone. Its simple fine line design is functional and pleasing. The modem features: 300 Baud, Bell 103 Compatible, Originate/Answer mode automatically selected, Connects directly to computer, Appropriate interconnect cables available for most computers and telephone models (not included).
The telepone features: 10 number memory auto dialer, Tone/pulse switchable, Mute button, Hands-free 2-way speakerphone, Fully modular connections into handset and base, Desk-top or wall mountable, Pause function for PABX.
Dimensions: 7-13/18"W x 4-5/8"H x 8-13/18"D. Weight 2 lbs. 4 oz.

Optional Accessories
- **CABLE A** For Apple, Kspro ...$14.95
- **CABLE B** For TI 99/4, OSBORNE ...$14.95
- **CABLE C** For Atari® ...$14.95
- **CABLE D** For IBM, Heath, Zenith ...$14.95
- **CABLE E** For Radio Shack TRS-80 Color Only ...$14.95
- **CABLE F** Commodore ...$14.95

TTC DIALESS I™

It Can Dial The Call At The Sound Of Your Voice NEW!

MODEL 601 OUR PRICE $149.95

DESCRIPTION
Everybody in the family—from the very youngest to the very oldest—will love using the amazing Dialess I, the phone that lets users call anyone they wish by merely saying a name. The secret ingredient of Dialess I is a powerful, state-of-the-art micro-computer right inside the telephone. Once told the names of the people to call, and then after recording their telephone numbers, the user never has to use his fingers—or memory—to dial them again. **Which numbers to store?** The Dialess I has 40 memories, enough for all family members to each have several of their own. Each memory has room for 21 digits to accomodate long distance prefixes. Store those numbers used most often, like emergency numbers for police or fire, or those which are most difficult to remember. The Dialess I even has a stackable memory for overseas, MCI or Sprint access codes.

SPECIAL FEATURES
- **Advanced Computer technology:** Calls are dialed almost as quickly as the name is spoken, with a convenience, consistency and accuracy most fingers cannot equal.
- **High-tech styling & engineering:** The Dialess I represents a major achievement in telephone design for beauty and ergonomic engineering.
- **Language adaptability:** The Dialess I can be used with any language or accent.
- **Visual confirmation of number:** Whether dialing a number by verbal command or by keying in the number, the Dialess I gives an easy-to-read digital readout of the number as it is dialed.
- **Auto redial of last number:** The Dialess I, by keying in the appropriate code or by announcing the name, will automatically redial the last number called.
- **Built-in clock:** Alarm and call timer The Dialess I has a digital clock, an alarm to remind you of appointments or to remind you of appointments or to remind you when it's time to make an important call, and a call timer to let the user know how long they've been on the telephone.
- **Easy to install.**

COBRA TELEPHONE CLOCK RADIO

The ultimate in function, style and convenience...decorator-styled for use in home or office.

MODEL RP-712 NEW!
OUR PRICE $39.95

COBRA TELEPHONE FEATURES
- Replaces your regular Home or Business phone. • Convenient 10 ft. coiled cord.
- Ends monthly phone rental costs...return your present phone to the Telephone Company.
- No installation required...simply plugs into phone jack and AC outlet.
- Mute button enables you to talk to someone in the room without the party on the hearing you.
- Redial feature provides one button redial of last number called if you get busy signal or no answer.

AM/FM CLOCK RADIO FEATURES
- Large, easy to read green LED display with Bright/Dim switch. • Snooze Alarm.
- Slide rule dial indicator. • AM/PM indicator. • Low silhouette design.
- Attractive walnut styling. • Radio has both AM and FM Bands.

TELEPHONE ACCESSORIES

BUSCOM INDEX DIALER
MODEL 2430

NEW!

OUR PRICE $109.95

DESCRIPTION

The Index Dieler offers the type of edvenced festuree usuelly found only on expenelve office phones. Bufferad Dieling lets you diel eny combinstion of eutometic end menuel numbers es feet ee you cen prese the keys. Autometic Rediel offers one-button dieling of lest number. Hold key lete you resume your cell from eny extenelon on the line. Toll Restriction prevents uneuthorized persons from piecing local end long distence cells. And the Busy Buster eutometicelly redlele e busy line until free, or up to 15 times. The Index Dieler is competible with ell stenderd phones. You cen select tone or pulse dieling, which ever suits your syetem. It hes e memory cepecity to etore 355 directory numbers of 11 digits, or you cen combine memorlee for one-touch dieling. Speciel memories let your store 2 numbers using the eccess code for your long dietence services. Then, snytime you diel a long distence number in the directory, it eutometicelly uses thet discount number. Beceuse it's compect (8 x 5-3/4 x 2") end light weight (1-1/2 lbs), the Index Dieler sits neetly on eny deek et e 10° sngla, or cen be well mountad with an optional kit. The unit is powered with e bettery beck-up (betteries not included), end includes a ten foot modular cord for fest instelletion.

Optional Wall Mount Kit
MODEL 305 ..... $9.95

BUSCOM PORTATOUCH TONE DIALER
MODEL 2112

OUR PRICE $27.95

DESCRIPTION

Menuel touch-tona keypsd in ultre-slim styling. Battaries sre included. This model plays its high queiity tone signel directly in the mouthpiece of the telephone. Lightweight end pocket porteble, it is ideel for on the go users of services like: discount long distence, peging end voice meli, remota dictetion and answaring mechinee, AT&T celling csrd, benk-by-phone end othere.

FEATURES
- Providas touch-tone dieling for uee of Sprint or MCI, benk-by-phone, voice meli, remote dictetion, peging, credit checks, order entry end other touch-tone telaphone services.
- Bettery powared (included).
- Pleys the touch-tones into the phone.
- Super-thin styling mekes it eesier to uee end cerry then eny other porteble keyped.

MODEL 2123

OUR PRICE $39.95

Stores up to 22 most frequently celled numbers plus rediel.

BP MULTILINE ADAPTOR SWITCH
MODEL TA-2000

OUR PRICE $19.95 NEW!

DESCRIPTION

The TA-2000 allows line connection of single line telephones, wireless phones dialers or snswering mschina to multiline systems utilising MICRO-Ribbon type connection.

TT KEY-SYSTEM ADAPTOR
WITH BUILT-IN ELECTRONIC RINGER
MODEL TA-10

NEW!

OUR PRICE $55.00

FEATURES
- Manufactures A + A' light control which eutometicelly controle the lights on most key systeme. Eilminetee ringing, fieshing lighte end felse hold problems which cen be ceueed by devices without A + A' circuitry.
- No inetelletion cost.
- Connecte in eeconds for immedlete uee.
- 1 full yeer werrenty.
- FCC approved.

DESCRIPTION

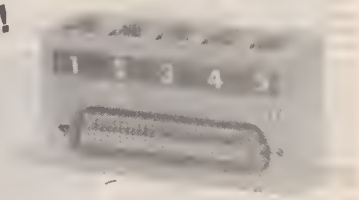
Ring selector switch options. When the unit le in the off poeition, the Key Syetem Adeptor will not ring. When the unit is in the SEL position, the Key System Adeptor will ring for incoming cells on the depressed line. When the unit le in the COM poeition, the Key System Adeptor will ring on eny line. The phone system must heve the common ringing feeture for this setting to function properly.

BP FIVE LINE CONNECTOR
MODEL TA-5000

OUR PRICE $24.95 NEW!

DESCRIPTION

Seperste items cen ba plugged in eimulteneously. Perfect for use with telephone enswering system, telephone recording devices, with decoretor end extension telephones. Ideal for most multi-telephone eccessory equipment. Cen be moved and re-used anytime. Wired for A + A light control.



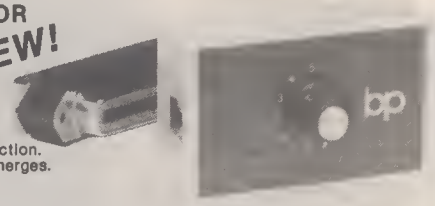
BP FIVE-LINE SELECTOR
MODEL TA-6000

OUR PRICE $29.95 NEW!

FEATURES
- Simple inetelletion.
- Rotery diel for choice of line 1-5.
- Rotery position "off" for disconnection.
- No monthly telephone compeny cherges.
- No power necessery.

DESCRIPTION

Perfect for use with telephone recording devices telephone enswering eystem and with decoretor end extension telephone.



BUSCOM SOFTTOUCH
MODEL 2012

OUR PRICE $34.95

DESCRIPTION

Thie model ettechee directly onto stenderd hendeets by ITT, Stromberg or Western Electric end insteli in ebout 10 seconde with no extre expenses. Gives eesy hendheld dieling end tekes no extre spece in your work erae.

ToneDielers edd menuel Touch-Touch® dieling to let rotery phonee use services like: benk-by-phone, remote dictetion end enswering mechines, diecount long distence, voice meli, order entry, end more.

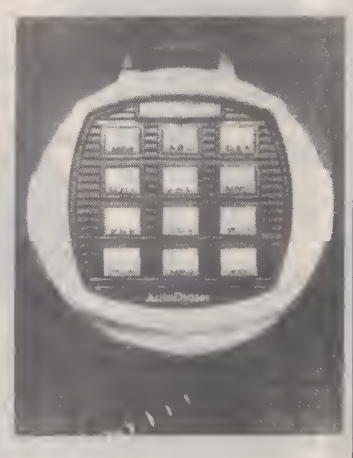
AutoDellers provide high speed dieling for touch-tone phonee end rotery phones with tone linee.

Touch-tone keyped with built-in hi-fi microphone so you telk telk through the keys. Custom pyremid-sheped keys for eesy touch dieling. Operetee on telephone line power.

MODEL 2023

OUR PRICE $49.95

Stores up to 22 most frequently called numbers plue rediel.



BP FIVE LINE JACK ADAPTOR
MODEL TA-1345

NEW!

OUR PRICE $9.95

DESCRIPTION

Five modulir jacks on one end end one modulir plug on the other end. Allows edditlon of up to five extenelon telephones or telephone releted devicee, (enswering systems, racording devices, etc.). The modulir plug eilows direct connection to eny current modualer interface or en existing modulir jack without use of tools.

BP AMPLIFIED HANDSET
MODEL TA-1390

OUR PRICE $14.95

FEATURES
- Volume control, to strengthen the sound of week eignel or to heer over eounding noiee.
- An eseet for the heering impaired.
- Eesy instelletion, Fully modulir.
- Cennot repiece hendsets with dielere on the hendsat.

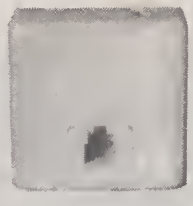
FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

TELEPHONE ACCESSORIES

BP MODULAR TELEPHONE ADAPTOR PLUG
MODEL TA-1300
OUR PRICE $1.49 each
10 FOR $10.00
DESCRIPTION
Modular telephone adaptor plug. Converts 4-pin phone jack to accept modular connector. Ivory plastic body.

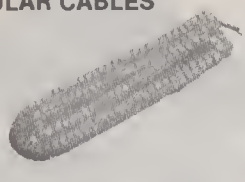
BP MODULAR TELEPHONE JUNCTION BOX
MODEL TA-1301
OUR PRICE $1.99 each
10 FOR $15.00
DESCRIPTION
Converts standard junction box to modular system without soldering. Spade lug connections and single screw mounting.

BP MODULAR SURFACE JACK
MODEL TA-1302
OUR PRICE $1.95 each
10 FOR $15.00
DESCRIPTION
Modular surface jack takes the place of old connecting block. Station wires connect terminals. Cover snaps on. Two mounting screws attached on solderless. "Quick Connect" terminals easily and quickly without stripping.

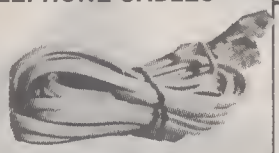


BP MODULAR PHONE COUPLER
MODEL TA-1305
OUR PRICE $1.99 each
10 FOR $15.00
DESCRIPTION
Allows two telephones to be plugged into a single modular jack.

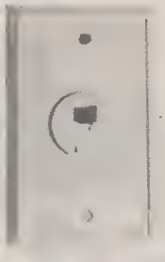
BP COILED MODULAR CABLES
MODEL TA-1309
OUR PRICE $3.95
DESCRIPTION
Connects Handphone with modular connector to base with modular connector. 25ft. Colors: white, brown, beige and red.



BP MODULAR TELEPHONE CABLES
MODEL TA-1310 15 ft.
OUR PRICE $1.95
MODEL TA-1311 25 ft.
OUR PRICE $2.95
DESCRIPTION
Connects modular phones to wall jacks. Has modular plug on each end. 25 feet long.



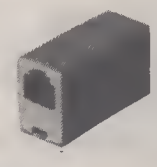
BP MODULAR WALL OUTLET JACKS
MODEL TA-1313
OUR PRICE $1.75 each
10 FOR $15.00
DESCRIPTION
Easily converts standard phones to modular system. No soldering required.



BP MODULAR TELEPHONE CABLES
With Spade Lugs
MODEL TA-1312 15 ft.
OUR PRICE $1.95
MODEL TA-1314 25 ft.
OUR PRICE $2.95
DESCRIPTION
Spade lugs on one end connect to standard wall junction box or to standard 4 prong plug or jack. Other end has modular plug

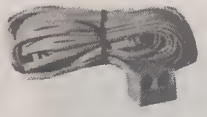
BP MODULAR TELEPHONE CABLES
With 4 Prong Jack
MODEL TA-1317 2 ft.
OUR PRICE $1.95
MODEL TA-1319 25 ft.
OUR PRICE $3.95
DESCRIPTION
Connects standard 4 prong telephone plug to modular telephone jack.

BP IN LINE COUPLER
MODEL TA-1320
OUR PRICE $1.75 each
10 FOR $12.50
DESCRIPTION
Back to back modular jack to connect 2 modular base cords.



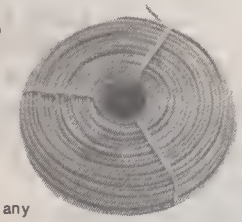
BP MODULAR TELEPHONE EXTENSION CORD
MODEL TA-1327
OUR PRICE $2.95
DESCRIPTION
25 ft. With one end plug and one end single jack.

BP MODULAR TELEPHONE EXTENSION CORD
MODEL TA-1328
OUR PRICE $3.95
DESCRIPTION
25 ft. With one end plug and one end duplex jack.

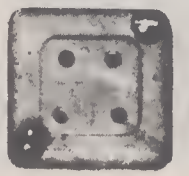


BP MODULAR WALL PHONE JACK
MODEL TA-1330
OUR PRICE $2.95 each
10 FOR $25.00

BP TELEPHONE EXTENSION CORD
T-50 50 ft. 2.95
T-100 100 ft. 4.95
DESCRIPTION
25' 3 conductor wire makes any phone portable. Available in white. Easy to install. Instructions included. Peg packaged.



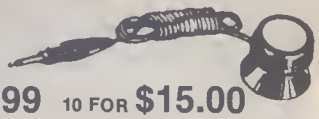
BP PORTABLE TELEPHONE JACK
MODEL TJ-22
OUR PRICE 70¢ each
10 FOR $6.00
DESCRIPTION
Surface mount telephone jack. Molded ivory plastic, with mounting screws. Instructions included. Peg packaged.



BP PORTABLE TELEPHONE PLUG
MODEL TP-20
OUR PRICE 70¢ each
10 FOR $6.00
DESCRIPTION
Standard telephone plug for indoor or outdoor use. Molded ivory plastic. Instructions included. Peg packaged.

BP TELEPHONE EXTENSION CABLE
MODEL TP-30
OUR PRICE $3.99
5 FOR $15.00
DESCRIPTION
30 ft. (molded) flexible ivory extension cable with T-1 plug on one end and T-2 jack on the other. Allows telephone to go anywhere. Peg packaged.

BP TELEPHONE PICK-UP SUCTION CUP
MODEL TP-55

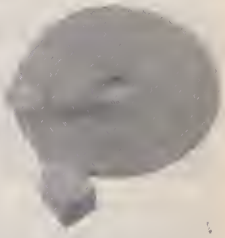


OUR PRICE $1.99 10 FOR $15.00
DESCRIPTION
Picks up both sides of phone conversation to tape recorder. No connection to telephone is needed. With 5 ft. shielded cord and plug. **Display package.**

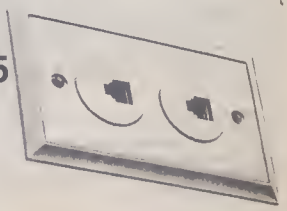
BP TELEPHONE WIRING BLOCK
MODEL TA-1308
OUR PRICE $4.95
DESCRIPTION
For modular or old style wiring.

BP TELEPHONE RING CONTROLLER
MODEL TA-1342
OUR PRICE $4.95
DESCRIPTION
The Ring Controller stops your phone from ringing when you don't want to be disturbed: bedtime, meals, illness, concentrated work hours, or even for quiet evenings at home.

BP TWO LINE CONVERTER
MODEL TA-1343
OUR PRICE $4.95
DESCRIPTION
Converts two separate single line telephone jacks into a two line telephone jack, allowing you to install a two line telephone product.



BP DUPLEX WALL JACK
MODEL TA-1332
OUR PRICE $1.95
10 FOR $17.50
DESCRIPTION
Flush mounted/modular.



CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

CB RADIOS

COBRA 40-CHANNEL CITIZENS BAND 2-WAY MINI-MOBILE RADIO

MODEL 19XS

OUR PRICE $39.95

FEATURES

- 40 Chennals.
- Combination Squelch/PA/CB Control.
- ANL Switch eutometicelly raducas tha high-pitchad noises that may eccompeny tha racalvad signel.
- S/RF PWR Metar, Shows ralativa transmittar RF output powar and input signel strength when racalving.
- Off/On/Volume.
- Public Addrasa.

SPECIFICATIONS

Frequency Renge: 26.965 to 27.405 MHz. **Frequency Control:** Phasa-Lockad Loop (PLL) synthasizar. **Frequency Tolerence:** 0.005% **Opereting Tempereture Renge:** −30°C to +50°C. **Microphone:** Plug-in typa; dynemic **Input Voltege:** 13.8V DC nom.(only neg. ground) **Weight:** 2 lbs. 3 oz., (1.0 kg) **Antenne Connector:** UHF, SO-239 **Semiconductors:** 12 tranelstora, 18 diodes, 3 integrated circuits **Metar:** illuminiatad; indicataa ralativa powar output and racalved signal strength. **TRANSMITTER—Power Output:** 4 watts **Modulation:** High- and low-laval, Claaa B amplituda **RECEIVER— Sensitivity:** Less then 1uV for 10dB(S+N)/N **Selectivity:** 8 dB @ 7 KHz, 55 dB @ 10 KHz. **Autometic Gein Control:** lass than 10 dB chenge in audio output for imputa from 10 to 50,000 microvolts. **Squelch:** Adjustabla; thrashold lass than 1uV. **Audio Output Power:** 300 - 3000 Hz. **Distortion:** Lase than 7% @ 3 watts @ 1000 Hz. **Built-in Speeker:** 8 ohms, round.

COBRA AM CB RADIOS

MODEL 29LTD

REG. $174.95 **OUR PRICE $119.95**

DESCRIPTION

"The Truckara Choica" with an instant amargency channal 9 switch — it'a tha induatry standard. Cobra's 29LTD reflacts tha latast advancas in CB technology to dalivar maximum power output, 100 par cant modulation and fina racalvar sansitivity. The 29LTD faaturas: SWR bridga and antanna warning indicator, awitchebla automatic noisa limiting/noisa blanking to suppress ignition end axtarnal alactrical interfaranca. DynaMike modulation control dalivara 100 par cent modulation at all speaking levels, RF gain control to adjust racalvar aanaitivity to match you naads, Dalta Tune and illuminated S/RF SWR matar with dimmar.

COBRA AM CB RADIOS

MODEL 25LTD

REG. $129.95 **OUR PRICE $88.00**

DESCRIPTION

Battar by a country mile. Tha larga, illuminetad metar tells you exactly how much power you'ra pushing out and tha atrength of tha signal you'ra pulling in. Includas: DynaMika modulation control for 100 per cant modulation at ell apeeking levals. RF gein control to adjust recalvar sansitivity to match your naads, eensitiva squalch, automatic noisa limiting/noise blanking to supprass ignition end axtarnal alactricel interfaranca, digitel LED display channal with bright/dim control, inatent amargency channal 9 switch, LED transmit/raceive indicetor, PA jack and external spaakar jack.

COBRA AM CB RADIOS

MODEL 21LTD

REG. $114.95 **OUR PRICE $79.95**

DESCRIPTION

A big parformer in a emall packaga. Tha 21LTD hes all tha featuras nacassary for accurate, reliabla operetion. Faaturas lika a larga, illuminatad mater to tall you exactly how much powar you're pushing out and the atrength of tha signal you'ra pulling in, digital LED chennel display, DynaMike modulation control to dalivar 100 parcant modulation at all apaaking lavals, automatic noise limiting to cut off annoying hiss and atatic caused by ignition and axtarnel alactrical interfarance, dynamic microphone, sansitiva squalch, PA capability, instant amargancy channal 9 switch, axternal spaakar jeck.

COBRA AM CB RADIOS

MODEL 18LTD

REG. $79.95 **OUR PRICE $55.00**

FREE! Trunk Lip or Magnetic Antenna with Purchase of 18LTD

DESCRIPTION

Cobra doas it again! Tha most wantad CB faaturaa, plus a mobila trenscaiver that'a small anough to fit under practically any deshboard. Tha 18LTD ie e thrifty buy, yat still has the POWERFUL PUNCH thet made Cobra tha laedar in CB's. The 18LTD faatures: illuminated S/RF metar, digital LED channal display, plug-in dynamic microphona, sansitiva equalch, axtarnal spaakar jack, plus many more faatures.

COBRA AM CB RADIOS

MODEL 67LTD

REG. $199.95 **OUR PRICE $125.00**

SPECIAL!

DESCRIPTION

Our nawest hide-away mobila CB. Tha 87LTD ramota mounte eeslly undar the saat, on the firawall or in the trunk of your car, sinca it's only 1-5/8"(H), 4-3/4"(W) and 8-1/2"(D). The eaay-to-use remota control dynamic microphona has all tha controls right at your fingar-tipe for Loud & Claar transmission: LED transmit/racalve indicator, digital LED channal displey, on/off and voluma control, chennel ealactor, inatant emargancy channal 9 switch, pueh-to-talk bar, RF gain control, switcheble ANL end eo much mora. Tha 67LTD comas complata with all the necassery brackets end herdwera.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

COBRA CB BASE STATION
MODEL 90LTD

NEW!

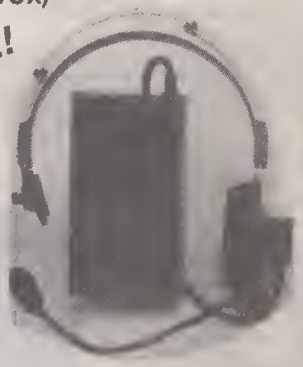
OUR PRICE **$99.95**

FEATURES
- Exclusive Cobar Dynamike Control.
- Oversized LED channel display.
- Illuminated S/RF meter.
- Compact size.
- Instant Emergency channel 9 switch.
- Volume control.
- CB/PA switch.
- Noise blanker/off switch.
- Automatic noise limiter/off switch.
- LED transmit indicator.
- Antenna connector.
- P.A. speaker jack.
- External speaker jack.
- Built-in speaker.
- LED channel display.
- Channel selector switch.
- Power on/off switch.
- R.F. gain control.
- Dynamike control.
- Squelch control.
- Microphone connector.
- Dynamic Microphone.

COBRA COMMAND CALL WALKIE TALKIE VOICE ACTIVATED (VOX) or PUSH-to-TALK
MODEL HC-200

OUR PRICE **$34.95** each

SPECIAL!



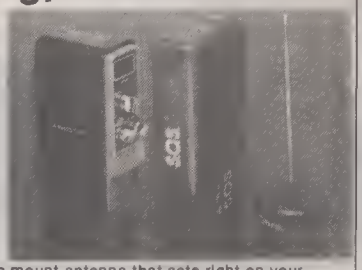
FEATURES
- Power Source: 9 VDC.
- Frequency Range: 49.830-49.890 mHz.
- Receiving System: FM dual conversion super heterodyne.
- Sensitivity: 0.5 uV min. (20 dB quieting).
- Power: Input 100 mW.
- Modulation: FM.
- Adjustable headphone with boom mike and antenna.
- Voice activated (VOX) transmitter.
- Removable spring loaded belt clip.

DESCRIPTION
The easiest way to keep in touch with hands free 2-way communication. The range of 1/4 to 1/2 mile will give unlimited industrial/commercial and recreational uses...construction, surveying, security, back packing, fishing, and many more.

COBRA S.O.S. 40 CHANNEL EMERGENCY 2-WAY RADIO
MODEL 39LTD

REG. $99.95 OUR PRICE **$49.95**

SPECIAL!



DESCRIPTION
The Cobra needs no installation. Wharavar you are ... whatever the emergency. Whether it's on a remota, lonaly highway or a bustling fraeway — Cobra's S.O.S. comes to tha rescue and puts you in touch. It's there when you need it. What's more — you can take this unique security with you from car to car bacausa thara's no installation. Simply plug it into your cigarette lighter and you're ready to go. And it's so convanient to operate, one hand's all it takes. The S.O.S. features a built-in microphone, LED channel display, amergency channel 9 indicator plus tha featuras listad balow.

FEATURES
- The Cobra S.O.S. boasts a telescoping magnetic mount antenna that sets right on your car's roof. Nothing could be easiar or mora convaniant. Plus, tha attention-gatting S.O.S. pouch slides right over the antenna end acts as an emargancy flagl
- The S.O.S. power cable plugs into tha cigaretta lightar for a faet, aasy hookup.
- Small enough to fit in many glove compartmants or aasliy undar tha saat.
- Self-contained casa: radio, antenna, power cable and handy S.O.S. flag.

COBRA 4 PIN MOBILE POWER MIC
MODEL CA-50

OUR PRICE **$16.95**

COBRA 5 PIN MOBILE POWER MIC
MODEL CA-51

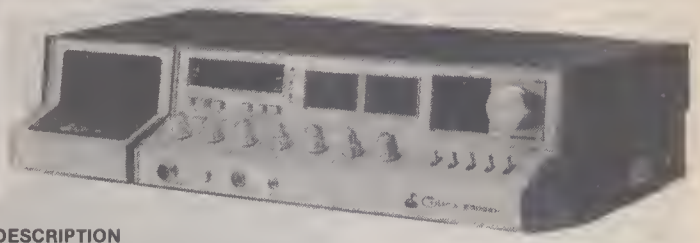
OUR PRICE **$16.95**

COBRA BASE POWER MIC
MODEL CA-61

OUR PRICE **$39.95**

COBRA SSB BASE
MODEL 2000GTL

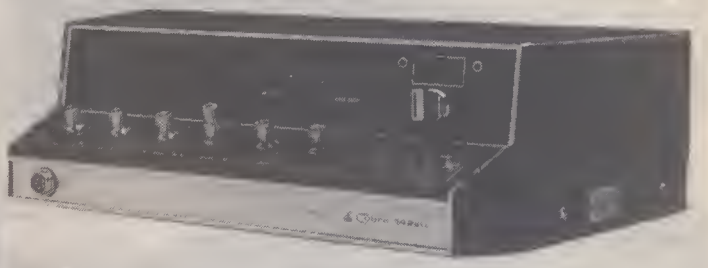
REG. $549.95 OUR PRICE **$349.95**



DESCRIPTION
Here's a precision AM/SSB basa station with attractive componant styling. From its sleek aluminum front panel and over-sized dual meters, to its built-in 6-digit frequency counter, the 2000GTL is a real beauty, faaturing: Voluma, ON/OFF control, Squelch, coarse and fine Voice Lock, DynaMike Plus, RF gain, SWR, CAL control, tone control, Noise Blanker, Noiee Limiter, mode control (LSB/AM/USB), LED channel display end more.

COBRA SSB BASE
MODEL 142GTL

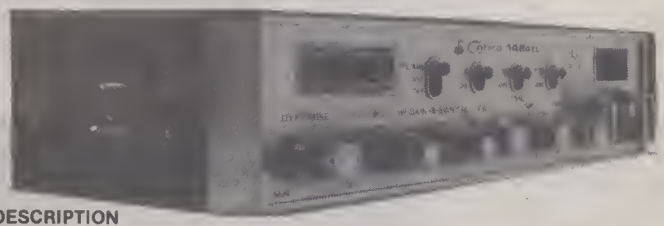
REG. $269.95 OUR PRICE **$199.95**



DESCRIPTION
This precision AM/SSB base is dasignad for the budget minded CB oparator who demands tha quality he can depand on, at a price he can afford. It faatures: ON/OFF volume control, Squelch, RF gain, DynaMike, SWR CAL control, Voice Lock, LSB/AM/USB switch, awitchable noise limiting and noise blanking. CB/PA switch, plus many more features.

COBRA SSB MOBILE
MODEL 148GTL

REG. $269.95 OUR PRICE **$179.95**



DESCRIPTION
Tha 148GTL is a no compromise, precision AM/SSB mobile unit for tha discriminating citizan's band operator who demands maximum performance. The faatures speak for themselves: DynaMika, Voluma, ON/OFF control, Squalch, RF gain, SWR CAL control, Voice Lock, S/RF/CAL/SWR switch, LSB/AM/USB mode switch, switchable automatic noiaa limiting and noisa blanking, CB/PA ewitch, HI/LOW tone switch, meter and LED brightness control, channel salactor, LED display, receiva and transmit indicator, illuminated S/RF/SWR meter, PA and external speaker outputs, maximum lagal power plus plug-in mika and brackets.

COBRA SSB MOBILE
MODEL 146GTL

REG. $209.95 OUR PRICE **$149.95**

DESCRIPTION
This is for tha valua-mindad AM/SSB mobila user. The 148GTL is for the citizen's band operator who appreciates quality and performance ha can count on. Volume, ON/OFF control, Squelch, RF gain, Voica Lock, LSB/AM/USB mode switch, switchable automatic noise limiting and noisa blanking, CB/PA switch, channel selector, LED display, receive and transmit indicator, illuminated S/RF meter, PA and external speaker outpute, and more.

CB & RADAR DETECTORS

UNIDEN 40-CHANNEL AM MOBILE

MODEL PC-33
REG. $59.95
OUR PRICE
$39.95

FEATURES
- 40 Channel.
- Front panel mic connector, ANL, LED "S"/RF meter, Digital display, LED TX lite, ext. speaker jack.
- Dimensions: 8"W x 8"D x 1 7/8"H.
- Shp. Weight: 2.2 lbs.
- Power 13.8VDC, positive or negative ground.

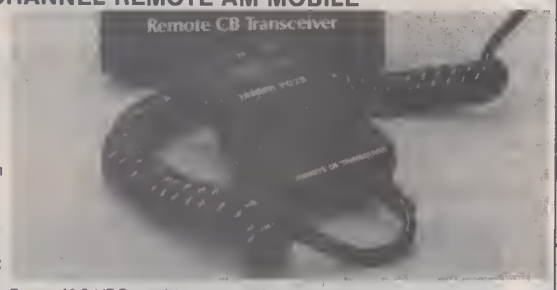
UNIDEN 40-CHANNEL AM/SSB MOBILE

MODEL PC-244
REG. $199.95
OUR PRICE
$149.95

FEATURES
- 40 Channel.
- PA, NB/ANL, Ch. 9 brite/dim & mode switches, RF gain, mic gain & clarifier controls, LED TX/RX, Mode & Ch. 9 lites, digital display, "S"/RF meter.
- Dimensions: 7 5/16"W x 9 1/18"D x 1 5/16"H.
- Shp. Weight: 4.5 lbs. • Power 13.8 VDC, positive or negative ground.

UNIDEN 40-CHANNEL REMOTE AM MOBILE

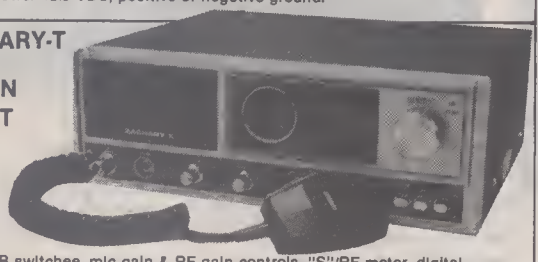
MODEL PC-22
REG. $159.95
OUR PRICE
$119.95



FEATURES
- 40 Channel.
- Remote, all controls in microphone. Up/Down channel selector, digital display, TX/RX indicator, ext. speaker jack.
- Dimensions: 5 3/4"W x 7 7/8"D x 1 1/2"H.
- Shp. Weight: 3.5 lbs. • Power 13.8 VDC, positive or negative ground.

UNIDEN ZACHARY-T 40-CHANNEL AM BASE STATION

MODEL ZACHARY-T
REG. $199.95
OUR PRICE
$149.95



FEATURES
- 40 Channel.
- Tone HI-LO, ANL & PA-CB switches, mic gain & RF gain controls, "S"/RF meter, digital display, TX/RX indicator, PA, headphone & ext. speaker jacks.
- Dimensions: 13 1/3"W x 11 1/2"D x 4 3/4" H.
- Shp. Weight: 11.0 lbs. • Power 13.8VDC, positive or negative ground & 117VAC.

UNIDEN WASHINGTON 40-CHANNEL AM/SSB BASE STATION

MODEL
WASHINGTON
REG. $299.95
OUR PRICE
$219.95

FEATURES
- 40 Channel.
- NB/ANL-OFF, "S"/RF MOD, MODE & Ch. 9 switches, mic gain, RF gain & clarifier controls, "S"/RF/MOD meter, mode & Ch. 9 indicators, digital display.
- Dimensions: 13 1/2"W x 11"D x 5"H. • Shp. Weight: 13.3 lbs.
- 13.8VDC, positive or negative ground & 117VAC.

UNIDEN RADAR DETECTOR

NEW!

MODEL RD-35
OUR PRICE **$99.95**

DESCRIPTION
The RD-35 is a low cost, lightweight, and compact rader detector. It's dual Superheterodyne circuitry, Electronic Data Interference Terminator (E.D.I.T.), filters all unwanted signals for accurate rader detection.

FEATURES
- Volume switch with Power On/Off Switch (3 position switch): Adjust volume from low to high or turn it off completely.
- Power LED: Lights when power is supplied to the unit.
- Audio and Visual Alarms: All models have both audible and visual alerts for radar reception. Internal audio alarm increases as rader signal strength increases.
- E.D.I.T. Electronic Data Interference Terminator Circuitry: Sophisticated state-of-the-art electronic circuitry filters unwanted radar signals and other sources of interference to help assure accurate radar detection.

UNIDEN SUPER SLIM COMPACT DUAL SUPERHETERODYNE RADAR DETECTOR

NEW!

WITH ELECTRONIC DATA INTERFERENCE (E.D.I.T.)
MODEL RD-9
OUR PRICE **$249.95**

FEATURES
- Continuous Volume. • Highway/City Switch.
- False Signal Protection E.D.I.T.
- Frequency Discriminator. • Power LED.
- Signal Meter. • X & K Band LED's.
- Automatic Dimmer Control and Alert Lamp.
- Dimensions: 107mm D x 70mm W x 18mm H.

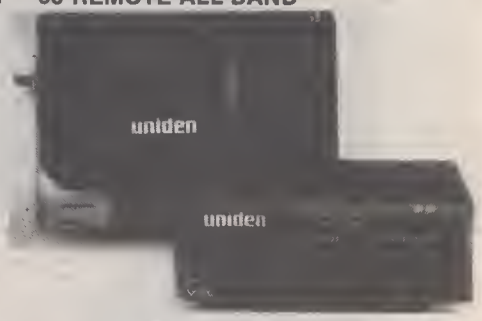
UNIDEN BANDIT™ 55 ALL-BAND RADAR DETECTOR

MODEL 55
REG. $189.95
OUR PRICE
$110.00

FEATURES
- Detects X and K' band Radar, E.D.I.T.
- Screens false alarms, audible & visual alarm.
- LED adjustable audio alert, LED signal meter.
- Hwy./city & brite/dim controls. • Cigarette lighter power connector.
- Dimensions: 5 1/8"D x 5 1/8"W x 11/2" H. • Shp. Weight: 1.2 lbs.

UNIDEN BANDIT™ 95 REMOTE ALL-BAND RADAR DETECTOR

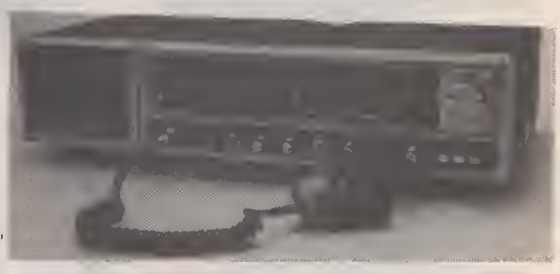
MODEL 95
REG. $219.95
OUR PRICE
$169.95



FEATURES
- Mounts out of sight.
- Detects X & K band radar, E.D.I.T.
- Screens false alarms, audible and visual alarm, adj. audio alert.
- LED signal strength meter.
- Cig. ltr. power connector.
- Shp. Weight: 1.5 lbs.
- Dimensions: Remote — 2 1/2"D x 3 1/8" W x 1 1/8"H; • Receiver — 5"D x 3 3/8"W x 2 3/8" H.

UNIDEN MADISON 40-CHANNEL AM/SSB BASE STATION

MODEL
MADISON
REG. $379.95
OUR PRICE
$289.95



FEATURES
- 40 Channel.
- NB/ANL, Ch. 9 & mode switches, PA, mic gain, RF gain, SWR/CAL & clarifier controls, headphone, PA & ext. speaker jacks, LED TX, RX, AWI, Mode & Ch. 9 lites, "S"/RF meter, SWR/Mod meter, digital clock, time set, alarm set, remote speaker.
- Dimensions: 14 7/8"W x 11 5/18"D x 4 3/4"H. • Speaker: 5 3/4"W x 11 5/18"D x 4 3/4"H.
- Shp. Weight: 18.0 lbs. • Power 13.8 VDC, positive or negative ground & 117VAC.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

MIDLAND HIGH-TECH 40 CHANNEL CB

NEW!

FREE
Trunk Lip or Magnetic Antenna with Purchase of 77-145

MODEL 77-145 **OUR PRICE $59.95**

DESCRIPTION
The Midland 77-145 is a compactly-engineered, high tech CB transceiver design. Only slightly larger then our sub-compact — and finished in matte black, featuring a cockpit-style control panel. It fits and looks good anywhere.
In an emergency the 77-145 is all business. Push the priority button for instant access to Channel 9 the official emergency channel. Its electronic tuning system gives you optimal channel dialing accuracy. A new, bright green LED digital channel indicator is easy to read at e glance. Signal strength and RF output can be monitored by a state-of-the-art LED ber meter. The advanced engineering gives you optimal "talk-power" and reception range. A pushbutton-controlled noise limiter (ANL) reduces noise. Installation is easy, with Midland's quick in-and-out bracket mount, snap-free power system and front-mounted mike.

SPECIFICATIONS
Size: 5" wide x 1¼" high x 6" deep (127 x 32 x 153mm) **Receiver sensitivity:** 0.8uV for 10dB (S + N)/N. **Power output:** 4 watts **Power requirement:** 13.8 VDC negative ground FCC **Identification number:** AK58t677145.

MIDLAND COMPACT 40-CHANNEL PORT-A-PAK MOBILE/PORTABLE TRANSCEIVER.

MODEL 77-805

OUR PRICE $96.95

DESCRIPTION
Convertible from in-vehicle use to true portable use, center-loaded antenna for use in portable mode, new high power 8 "C" cell battery pack for up to 4 times battery life of previously used AA pen cells, On-demand lite switch for L.E.D. channel display, mobile mounting brackets with quick disconnect DC power cable, lighted Bar-type S/RF power indicator, portable carry case with shoulder strap and mike clip, Transmit Power: 4 watts switchable to 1.0 watts for longer battery life. 13.8-volt DC negative ground. With case, 4¾" x 2¾" x 7", without case, 4" x 1" x 6". Batteries not included.

MIDLAND SINGLE SIDEBAND/AM TRANSCEIVER

MODEL 79-260

OUR PRICE $139.95

NEW!

FEATURES
- 40 AM channels / 40 Upper sideband channels / 40 Lower sideband channels.
- Selector switch for AM, Upper and Lower Sideband. • Clarifier control fine-tunes and off-center SSB signals.
- Illuminated S/RF power meter. • Front mounted mike. • Easy installation. Quick disconnect.

DESCRIPTION
If you want to move away from the 40-channel CB crowd, then this Midland Model 79-260 is for you.
Just a flip of the mode switch moves you from AM to upper and lower sideband, giving you the next best thing to your own, personal CB band. (Only other "single-sidebanders" have access to your transmission.)
The Midland 79-260 also reaches out with greater clarity—a potential lifesaver when you need help fast.
All told, the Midland SSB/AM TRANSCEIVER gives you the ultimate in CB performance, reliability and flexibility. Just look at these features.

SPECIFICATIONS
Size: 9-3/4"deep x 7-1/2" wide x 2-1/4" high. **Receiver sensitivity:** 0.5uV for 10dB (S+N)/N. **Power output:** AM-4 watts SSB-12 watts (PEP).

MIDLAND 5-WATT, 3-CHANNEL CB HAND HELD WITH SWITCHABLE HI/LO POWER.

MODEL 75-764B

OUR PRICE
$49.95

DESCRIPTION
Operates on any 3 of the 40 CB channels: Channel 11 crystals installed, 2 channel positions open. Transmitter rated for nominal 5-watt input power operation with high level modulation-switchable to battery-saver 2-watt low power. Superheterodyne receiver has tuned RF stage, ceramic IF filter, automatic gain control, variable squelch. Uses 12-volt power from eight "AA" dry cells, ten ni-cad "AA" cells or external sources (batteries not included). Pushbutton L.E.D. battery check light. Jacks for external power, charger, microphone, complete with carrying case. Metal cabinet 8 3/4" x 3 1/4" x 2 1/8".

MIDLAND READY RESCUE II 40 CHANNEL CB RADIO

MODEL 77-911

OUR PRICE $69.95 NEW!

FEATURES
- Electronic readout and tuning system.
- Use as primary CB radio in you car.
- Electronic LED "S-RF" meter.
- Operates from Standard 12-volt car battery.
- Optional battery pack gives you portable communications you can use anytime, anywhere, clips right on unit and fits in the strudy carrying case provided.

DESCRIPTION
The Ready Rescue II is a full 4-watt, 40 channel CB Radio with priority channel 9 emergency built-in. Fits completely, along with antenna, in a compact carrying case.
The incredibly lightweight Ready Rescue II stores easily in your car or trunk when not in use. To operate: simply attach the antenna to the magnetic mount, and put on vehicle roof, or attach directly to unit for remote use; press the talk button and talk on any of the 40 CB channels. Press the EMERGENCY red button and you're on the priority 9 Channel!
This kit comes equipped with a flexible antenna, car-top magnetic antenna mount with cable, cigarette lighter adaptor with cord, and a rugged carrying/storage cese with handle.

SPECIFICATIONS
Size: 2-3/4"wide x 6-7/16" high x 1-3/8" deep. **Receiver sensitivity:** 0.7uV for 10dB (S+N)/N. **Maximum output:** 4 watts. Power requirements: 12 VDC.
Model 18-911 (optional) battery pack . . . $00.00

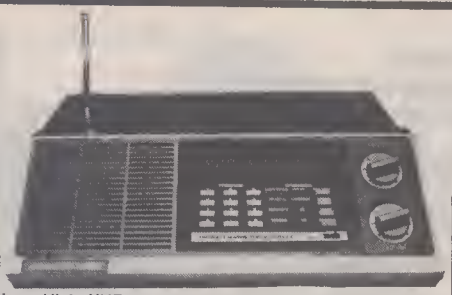
SCANNERS

BEARCAT 20/20

Aircraft, marine and public service-all within pushbutton reach.

MODEL 20/20

OUR PRICE **$299.95**



FEATURES

- **40 Channels/2 Positions.** Monitor 20 channels at a time by use of a two-position switch, for a total of 40 channels.
- **7 Bands.** Your coverage includes Low, High, UHF and UHF-T public service bands, the 2-Meter and 70 cm Amateur bands, plus the Aircraft communications band.
- **Aircraft Search.** Push a single button to search the Aircraft band for any activity.
- **Marine Search.** Search the entire VHF Marine band by pushing a single button.
- **Automatic Search.** Find new frequencies you may have been missing.
- **Limit/Hold.** You choose the upper and lower limits of the search range.
- **Decimal Display.**
- **Dual Scan Speed.** Scan either 5 or 15 channels each second.
- **Priority.**
- **Patented Selective Scan Delay.** Adds a two-second delay on desired channels.
- **Automatic Lockout.**
- **Manual.**
- **Patented Track Tuning.**
- **Crystalless.**
- **Automatic Squelch.**
- **Direct Channel Access.** Advance directly to a desired channel.
- **FCC Certified, UL Listed.**

SPECIFICATIONS

- Frequency range:
  30-50 MHz Low Band, 118-136 MHz Aircraft, 144-148 MHz 2-Meter Amateur, 148-174 MHz High Band, 421-450 MHz 70 cm Amateur, 450-470 MHz UHF Band, 470.0125-512.450 MHz "T" Band
- Size: 10 5/8" W x 3 1/2" H x 8" D

BEARCAT ALERT Warning Radio

MODEL ALERT

OUR PRICE **$39.95**

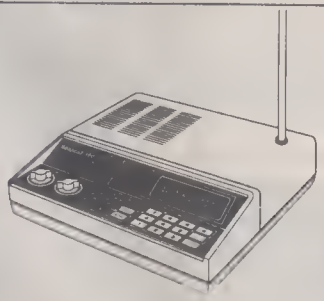
DESCRIPTION

When there's a weather emergency, the National Weather Service sends out a special tone signal that will actually turn on the Bearcat ALERT in your home—warning you first with a loud siren, then with a detailed broadcast of the impending threat. National Weather Service even suggests what actions you should take to assure the safety of you and your family.

BEARCAT 180

MODEL 180

OUR PRICE **$179.95**



DESCRIPTION

Police and fire calls. Ham radio transmissions. Business and transportation communications. Even news crews reporting. You can hear it all on a Bearcat 180 scanner radio. Imagine the thrill of hearing a major news event unfold even before the news organizations can report it. And the security of knowing what's happening in your neighborhood by hearing police and fire calls in time to take precautions. There's nothing like scanning to keep you in-the-know, and no better way to get scanner radio performance at a value price than with the Bearcat 180.

SPECIFICATIONS

- **Frequency Range:**
  30-50 MHz Low Band
  138-144 MHz Military Land Mobile
  144-146 MHz 2-Meter Amateur
  148-174 MHz High Band
  406-420 MHz Federal Government Land Mobile
  420-450 MHz 70-cm Amateur
  450-470 MHz UHF Band
  470-512 MHz UHF "T" Band
- **Size:** 9"W x 3"H x 9½"D
- **Weight:** 3lbs., 8oz.

BEARCAT FIVE-SIX

Professional police, emergency and aircraft monitoring, to go.

MODEL 56

OUR PRICE **$129.95**

DESCRIPTION

The Bearcat FIVE-SIX covers five bands and six channels, including VHF High and Low, UHF and UHF-"T", plus VHF Aircraft, scanning eight channels per second.

SPECIFICATIONS

- **Frequency Range:**
  33-47 MHz Low Band
  118-136 MHz Aircraft (AM)
  152-184 MHz High Band
  450-470 MHz UHF Band
  470-512 MHz "T" Band
- **Size:** Approx. 2 7/8"W x 8 5/8"H x 1 5/8"D
- **Weight:** 12 ounces

UNIDEN® BEARCAT® 210XW SCANNER

MODEL 210XW

OUR PRICE **$219.95** NEW!

FEATURES

- **Eight Bands:** Including Military, two "Ham" bands, Federal Government and more.
- **20 Channels:** Program to your choice of frequencies.
- **Instant Weather:** Automatically finds the National Weather Service broadcast in your area.
- **Automatic Search:** Finds new frequencies automatically.
- **Synthesized:** Simple keyboard command of all functions.
- **Track Tuning:** Patented feature allows scanner to peek on each transmission.
- **Scan Delay:** Patented feature adds three-second delay on desired channels to prevent missed transmissions.
- **Automatic Squelch:** Factory set for easier operation. Use manual for closer adjustment.
- **Direct Channel Access:** Go directly to any channel without stepping through other channels.

SPECIFICATIONS

Band Coverage: 8 bands + weather channel. **Frequency Range:** Low band 30—50MHz, Military land mobile 136—144MHz, 2-meter "Ham" band 144—148MHz, High band 148—174MHz, Federal Government land mobile 406—420MHz, 70cm "Ham" band 420—450MHz, UHF band 450—470MHz, "T" band 470—512MHz. **Channels:** 20 channels. **Scanning Speed:** 15 channels per second. **Display:** Vacuum fluorescent decimal display. **Controls/Switches:** Volume and squelch controls. **Power Requirements:** 117VAC or 13.8VDC.

BEARCAT 100XL HAND HELD SCANNER

MODEL 100XL

OUR PRICE **$279.95**

FEATURES

- **18 Channels.** Program 18 channels with your choice of frequencies.
- **9-Band Coverage.** Including coverage of Military and Federal Government Land Mobile frequencies.
- **Crystal-Free.** Solid state circuitry allows selection of public service frequencies without ever having to buy a crystal.
- **Search.** Seek and find new, exciting frequencies automatically.
- **Limit.** Set upper and lower limits of search range. Also used to "step down" through frequencies in manual search.
- **Hold.** Stop on any frequency while searching. Also used to "step up" through frequencies when in manual search.
- **Automatic Lockout.** Skip channels not of current interest for faster scanning cycle.
- **Manual.** Allows direct channel access. Advance directly to a desired channel or step one channel at a time.
- **Patented Track Tuning.**
- **Patented Selective Scan Delay.**
- **Direct Channel Access.**
- **Liquid Crystal Display.**
- **Battery Low Indicator.** Tells you when it's time to recharge.
- **DC Power.** Uses 6 AA nickel-cadmium batteries.
- **FCC Certified with UL Approved Charger.** Tested for safe, quality design and manufacture.
- **AC/Adapter/Battery Charger.** charging batteries and using scanner with AC power.

SPECIFICATIONS

- **Frequency Range:**
  30-50 MHz Low Band
  118-136 MHz Aircraft
  138-144 MHz Military Land-Mobile
  144-148 MHz 2-Meter Amateur
  148-174 MHz High Band
  406-420 MHz Federal Govt. Land-Mobile
  420-450 MHz 70 cm Amateur
  450-470 MHz UHF Band
  470-512 MHz "T" Band
- **Size:** 3"W x 7"H x 1¼"D

BEARCAT 300B

MODEL 300-B

OUR PRICE **$369.00**

DESCRIPTION

The Bearcat 300. It's the most advanced automatic scanning radio yet developed. It's also the easiest to operate.

FEATURES

- **Service Search**—Push-button access to specific interest categories. Eleven Service Search keys for immediate searching of eleven specific interest
- **50 Channels/5 Banks**—Program 50 Channels from infinite frequency combinations.
- **7 Band Coverage.**
- **Dim Control**—Adjusts display brightness, especially important for night mobile applications.
- **Priority**—Samples programmed priority frequency on channel 1 every 2 seconds regardless of other scanner operations
- **Automatic Search**—Seek and find new, exciting frequencies.
- **Limit**—Sets upper and lower frequencies of search range.
- **Hold and Resume Functions**—"Hold" stops search at any point. "Resume" restarts search from the same point.
- **Speed**—Choice of either 5 or 15 channels per second scan or search speed for closer monitoring of desired frequencies.
- **Patented Selective Scan Delay.**
- **Direct Channel Access**—Move directly to desired channel without stepping through all channels.
- **Simple Programming**—Simply punch in on the keyboard the frequency you wish to monitor.
- **Automatic Lockout**—Locks out channels not of current interest.
- **Band Keys**—Separate key for UHF, High and Low VHF permit lock-in/lock-out of any band (where applicable) for more efficient use of a service search.
- **Rolling Zeros**—This Bearcat exclusive tells you which channels your scanner is monitoring.
- **Patented Track Tuning.**
- **Automatic Squelch.** •**Crystalless.**
- **Time**—Digital clock—hours, minutes and seconds.
- **Auxiliary**—On/Off control of auxiliary.
- **AC/DC**—Operates at home or in authorized vehicle.
- **UL Listed/FCC Certified**—Tested for quality design and manufacture.

SPECIFICATIONS

- Frequency Reception Range:
  32-50 MHz Low Band
  118-138 MHz Aircraft
  144-148 MHz 2 meter Amateur
  148-174 MHz High Band
  421-450 MHz 75 cm Amateur
  450-470 MHz UHF Band
  470-512 MHz "T" Band
- **Size:** 12¼"W x 3 7/8"H x 7"D
- **Weight:** 8lbs. 8ozs.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

REGENCY POLARIS HAND HELD 30 CHANNEL SCANNER

MODEL HX-1000
REG. $329.95

NEW!

OUR PRICE **$225.00**

FEATURES
- 8 Bands.
- 30 channels.
- Keyboard programmable.
- Search/Scan.
- Priority control.
- LCD with clock.
- Sealed rubber keyboard.
- Lockout.
- Scan delay.
- Wall charger.
- Carrying case.
- Belt clip.
- Flexible antenna.
- Nicad battery.
- 30-50, 144-148, 148-174, 440-450, 450-470, 470-415 MHz.

REGENCY 45 CHANNEL SCANNER

MODEL Z-45
REG. $329.95

OUR PRICE **$225.00**

NEW!

FEATURES
- 45 channels.
- 7 bands, Public service plus aircraft.
- Search/Scan.
- Priority control.
- No battery required to maintain memory.
- Dual level display.
- Lockout.
- Scan delay.
- Clock/Alarm.
- Display messages.
- Telescoping antenna.
- External antenna jack. AC/DC.
- 30-50, 118-136, 144-148, 148-174, 440-450, 450-470, 470-512, MHz.

REGENCY 20 CHANNEL SCANNER

MODEL MX-7000
REG. $699.95

OUR PRICE **$479.95**

NEW!

FEATURES.
- 20 channels.
- Continous coverage from 25-550 MHz and 800-1.3 GHz.
- Channels include: VHF/UHF-TV audio, FM broadcast, Aircraft, 800 mHz comm. and cellular telephone.
- Search/Scan.
- Clock.
- Channel 1 priority.
- Dual scan speed.
- Lockout.
- Multi-function digital display.
- Search or scan delay.
- Mounting bracket.
- AC adaptor/charger, DC cord.
- 25-550 MHz to 800-1.3 GHz.

REGENCY 55 CHANNEL SCANNING TRANSCEIVER

MODEL MT-5500XL

OUR PRICE **$299.95**

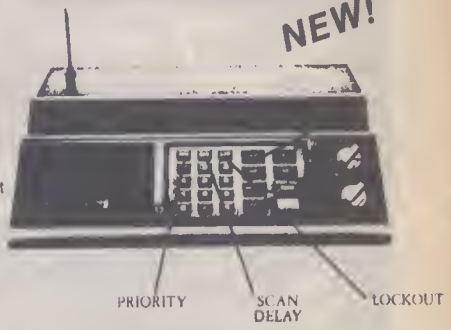
FEATURES
- 55 Channels.
- 25 Watt scanning transceiver with touch entry.
- Backlighted keyboard.
- 25/1 Watt switch.
- Programmable priority.
- U.S. and International Marine channels.

UNIDEN® BEARCAT® 40 CHANNEL SCANNER

MODEL 800XLT

OUR PRICE **$349.95**

NEW!



FEATURES
- 12 Bands: Including 800 MHz, aircraft, military, "Ham", public safety and Federal Government.
- 40 Channels: Two bands of 20 channels.
- Instant Weather: Automatically finds the National Weather Service broadcast in your area.
- Priority: Channel one checked every 3-seconds to prevent missing important calls.
- Synthesized: Enter frequency of your choice.
- Track Tuning: Patented feature allows scanner to peak on each transmission.
- Scan Delay: Patented featured adds three-second delay on desired channels to prevent missed transmissions.
- Automatic search: Find new frequencies automatically.
- Direct Channel Access: Go directly to any channel without stepping through other channels.
- Automatic Squelch: Factory set for easier operation. Use manual for closer adjustment.
- Channel Lockout: Allows you to skip channels you don't want to hear.
- UL Listed/FCC Certified: Tested for safe, quality design and manufacture.

SPECIFICATIONS

Band Coverage: 10 bands + weather channel. **Frequency Range:** 10 meter "Ham" band 29—29.7MHz, Low band 29.7—50MHz, 6 meter "Ham" band 50—54MHz, Aircraft 118—136MHz, Military land mobile 136—144MHz, 2 meter "Ham" band 144-148MHz, High band 148-174MHz, Federal Government land mobile 406—420MHz, 70cm "Ham" band 420—450MHz, UHF Band 450—470MHz, "T" Band 470—512MHz, 800 band 806—912MHz.

SUPERCALL EAGLE-1 UHF BAND MINI TRANSCEIVER.

MODEL EAGLE-1

OUR PRICE **$149.95**

NEW!

FEATURES
- 3 channels with 10 MHz band.
- 200 mW clean FM output power suitable for local services.
- Low power consumption. Uses four popular UM-3 cells.
- 20W amp, voice control unit and repeater access unit available as options.

SPECIFICATIONS

Frequency Band: Any channels within 10 MHz at 420-480 MHz band. **X'Tals:** One channel installed. **Output Power:** 200mW. **Receiver Sensitivity:** 0.5uV @S/N 10dB. **Power Supply:** DC 8V, UM-3 X4. **Dimensions:** 85(W) x 160 (H) x 32 (D)mm. **Weight:** 420g. Has jacks for external speaker and mike. FCC approved at frequency 440-449.98 MHz band.

BEARCAT SHORTWAVE RADIO

MODEL DX-1000 OUR PRICE **$489.95** SPECIAL!

FEATURES
- Direct Access Tuning. • 10 Channel Memory. • Two Time Zone 24-Hour Clock. • AF Gain.
- Timer. • Two Noise Blankers. • Selectable Filter Bandwidths.
- Manual Step-up/Stepdown. • Two Position Automatic Gain Control. • RF Attenuator.
- Tuning Knob. • Variable Tuning Rate Button. • Fine Tuning. • Squelch.
- Calibrated Signal Meter. • Mode Buttons. • Dimmer Button. • Tone Control.
- LED Indicators. • Battery Back-up System. • Portable Battery Operation.
- Front Mounted Speaker. • Antenna Terminals. • Auxiliary Jacks.
- AC Cord. • Record Output. • Mute Terminal. • Ground Terminal.

DESCRIPTION

The Bearcat DX-1000 makes dialing in London as easy as dialing a phone. With its direct access keyboard tuning, the Bearcat DX-1000 is one of the easiest shortwave radios to operate. Each time you turn on your shortwave radio, you have the opportunity to listen in on a newsbreaking event. But not everything on shortwave is of a serious nature. By dialing up 15,170 kHz any evening, you can delight to the exotic South Pacific sound of Radio Tahiti. Jazz enthusiasts will enjoy the rhythmic West African "high life" music that is readily available from stations like Radio Togo on 5,047 and Radio Cameroon on 4,850 kHz. Every moment of every day and night shortwave radio brings into your home an absorbing new interest—a fascinating way to keep up with international events, to be informed and stay informed.

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

AUTO ANTENNAS

BP TRUNK LIP MOUNT MOBILE ANTENNA
MODEL CB-206

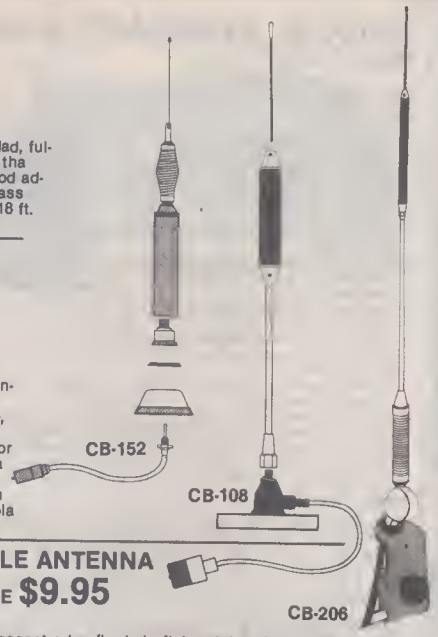
OUR PRICE **$9.95**

DESCRIPTION
For 27 mHz CB transcaivars. Basa-loadad, fully waather-proof, easy to install 'top of tha ilna' antanns. Ovarall langth: 43-1/2". Rod adjusts for lowast SWR haavy duty stainlass staal whip and shock spring. Includas 18 ft. coax cabla and PL-259 connactor.

RAIN GUTTER MOUNT MOBILE ANTENNA
MODEL CB-152

OUR PRICE **$9.95**

DESCRIPTION
For 27 mHz CB trnscaivars. Gat aasy installation with this 28" antanna. Guttar mount manufacturad from haavy gauge, corrosion fraa chrome-plated matal. Clampa sacuraly to many rain guttars for no-hola installation. Inciudas adjustabla 180° swival ball for vertical position of tha antanna. Rasdy for aasy installation with 10 ft. top quality RG-58/U coax cabla and PL-259 connactor.



MAGNETIC MOUNT MOBILE ANTENNA
MODEL CB-108 OUR PRICE **$9.95**

DESCRIPTION
For 27 mHz CB transcaivars. Powarful magnat grips firmly to flat matal surfaca. Spacial coating on magnat basa kaaps scratching or marring of psintad eurfaca. Cantar coil-loadad and complataly waathar-proof, tunas to lowast SWR stainlass staal whip chromaplatad support rod. Ovarall langth 28". Includas 10 ft. RG-58/U coax cabla and PL-259 connactor.

COBRA LTD MOBILE ANTENNAS
Trunk/roof mount
MODEL AT-40-C

OUR PRICE **$15.95**

MAGNETIC MOUNT
MODEL AT-50

OUR PRICE **$16.95**

ASTRO SCAN
Increase Your Scanner Range.
Tri-Band Base Monitor Antenna.

MODEL AV-801 OUR PRICE **$44.95**

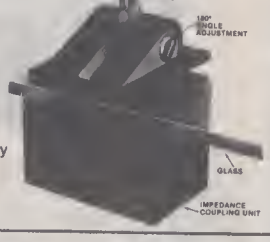
FEATURES
Patantad naw dasign.
- Easy installation.
- Suparior gain and band width.
- Clearaat racaption.
- Excallant wind rasistanca.
- Unmatchad varsstility.
- HF, VHF, UHF 25 to 512 MHz, Includas naw 'T' band.

SPECIFICATIONS
Radiator: H.F.—Co-inductive 5/8 wave. Astro Plane: 4.4 dBi gain. VHF: Full 1/2 wava dipola. 2.1 dBi gain. UHF: 1-1/2 wava collnaar 3.3 dBi gain. Impedance: 50-52 ohma. Height: 10' 2". Weight: 4 lbs.

AVANTI MOON FANTOM
MODEL AV-240 OUR PRICE **$39.95**

A daluxa, supar ranga, glass mounted mobila antanna. Easy to install. Outstanding parformanca.

FEATURES
- ½-wava CB antanna dasign.
- Raquiras no ground plana, works on matal or fibarglaas vahicias.
- Convaniant on-glasa dasign lats you mount AV-240 on any vahicla with a windshlaid, raar or sida windows — avan through fibarglass. Works graat on vans, motorcycias, avan apartmant windows.
- Easy to installi. Mounts in minutas. No tools needad.



HARADA AUTOMOBILE AM/FM/TV ANTENNA
MODEL ACC-08

OUR PRICE **$24.95**

FEATURES
- Datachabla mount, four saction stainlass staal mast.
- Extands 42".
- Cable—72", with VHF/UHF splittars.
- No wind noisa.
- Availabla in skin packaga.

HARADA ANTENNAS
UNIVERSAL AM/FM POWER ANTENNAS
NEW!

MODEL XMQ-1 OUR PRICE **$19.95**
Sami-automatic powar antanna with flush mount, 5-sacion, 31" axt, 55" cabla

MODEL XMX-1 OUR PRICE **$29.95**
Sami-automatic front fandar mount, chroma platad, 5-saction, 31" mast, 55" cabla

MODEL XMX-2 OUR PRICE **$34.95**
Fully automatic front fandar mount, chroma plated antanna, 4-saction, 21" msst, datachabla 55" cabla.

MODEL MCB-40 OUR PRICE **$16.95**
For raar mount add axtantion cabla.

UNIVERSAL AM/FM/CB POWER ANTENNAS
MODEL XMT-1 OUR PRICE **$42.95**
Semi-automatic front fandar mount, raplacaabla maat, flush mounting haad, 5-saction mast axtands 42".

MODEL XMT-2 OUR PRICE **$54.95**
Fully automatic front fandar mount, raplacaabla mast, flush mounting hasd, 5-saction mast axtands 42".

MODEL MCR-200 OUR PRICE **$16.95**
For raar mount add axtanion cable.

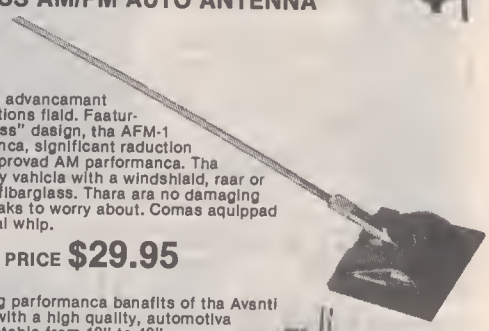
AVANTI ON-GLASS AM/FM AUTO ANTENNA
MODEL AFM-1

OUR PRICE **$29.95**

DESCRIPTION
A ravolutionary naw tachnical advancamant in tha autosound communications fiald. Faaturing Avanti's axclusiva "on-glass" dasign, tha AFM-1 offars suparior gain parformanca, significant raduction of pickat fanca fading and improvad AM parformanca. Tha AFM-1 can ba mountad on any vahicla with a windshiald, raar or sida windows—avan through fibarglass. Thara ara no damaging holas to drill, and no watar laaks to worry about. Comas aquippad with a 48" solid stainlass staal whip.

MODEL AFM-2 OUR PRICE **$29.95**

DESCRIPTION
Includas all of tha outstanding parformanca banafits of tha Avanti AFM-1, axcapt it la aquippad with a high quality, automotiva talescoping whip that is adjustabla from 18" to 48".



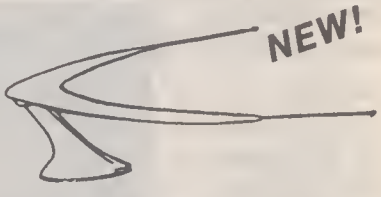
DUAL-FUNCTION CB METER
MODEL CB-170C

OUR PRICE **$12.95** NEW!

SPECIFICATIONS
- SWR Scala: 1:1—1:3 VSWR.
- FS Scala: 0-5 ralativa scala.
- Fraquancy Ranga: 3.5—150 MHz.
- Impadanca: 52 ohms.
- Antanna: 5-saction talascopic.

LONGHORN MOBILE TELEVISION ANTENNA FOR VIDEO
FEATURES
- Supar Wing Dasign.
- Idaal for autos, trucks, vans, boats, RV's, and limos.
- 3 mounts to choosa from: trunk, parmanant, maganatic.
- Ranga Extanding Linaar loadad for maximum ranga.
- Minimizas pictura roll and fluttar.
- Only 6-1/4" tall.
- Low loss coaxial cabla.
- 100 Mila Ranga (50 mila radius).
- Usad for TV, AM/FM radio.

NEW!



AMPLIFIED MODELS (PB)
Powar boostad modals hava built-in amplifiar. +12 dB gain, 50-800 MHz covars VHF-UHF TV and FM radio.

MODEL	OUR PRICE
720-PB Permanent mount with amplifier	$69.95
721-PB Trunk mount with amplifier	$74.95
722-PB* Magnet mount with amplifier	$74.95

Not for aluminum or fibarglass vahicias.

UNAMPLIFIED MODELS

MODEL	OUR PRICE
720-L "LONGHORN" permanent mount 9' cable and connector	$39.95
721 "LONGHORN" trunk mount 15' cable and connector	39.95
722* "LONGHORN" magnet mount 15' cable and connector	44.95

*Not for aluminum or fibarglass vahicias

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

AUDIOVOX ELECTRONICALLY TUNED AM/FM/MPX RADIO WITH STEREO CASSETTE PLAYER AND QUARTZ CLOCK

MODEL AVX-930

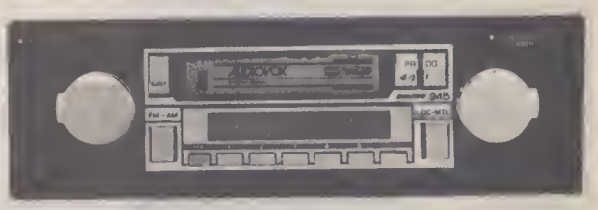
OUR PRICE **$119.95**

FEATURES
- Back-lit LCD panel for display of frequency, time, functions.
- 12 station memory (6AM/6FM) and automatic SEEK tuning.
- Display priority switching for frequency or time readout.
- Left-right stereo balance control.
- Locking fast-forward and eject control.
- 14 watt maximum output power.
- 6 1/4"W x 2"H x 5 1/8"D.

AUDIOVOX ELECTRONICALLY TUNED AM/FM/MPX RADIO WITH AUTO-REVERSE STEREO CASSETTE PLAYER AND QUARTZ CLOCK

MODEL AVX-945

OUR PRICE **$149.95**

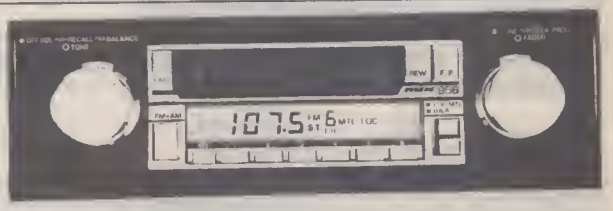


DESCRIPTION
- Back lit LCD panel displays frequency, time and functions selected.
- Metal/Cr02 tape capability.
- Locking fast-forward and rewind cassette.
- Auto-reverse cassette.
- Super-Reach FM circuitry for optimum reception.
- 12 station memory (6AM/6PM).
- SEEK function.
- Display priority switching for frequency or time readout.
- Full range tone control.
- 4-way balance controls.
- 14 watt max. output power.
- 6¼"W x 2"H x 5 1/8"D.

AUDIOVOX HIGH-POWER ELECTRONICALLY TUNED AM/FM/MPX RADIO WITH AUTO-REVERSE CASSETTE PLAYER AND QUARTZ CLOCK.

MODEL AVX-956

OUR PRICE **$179.95**



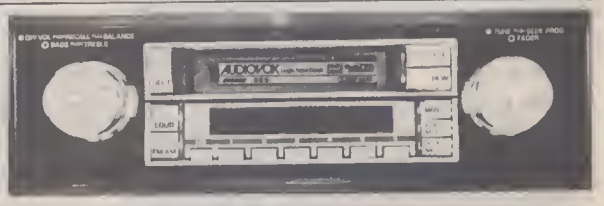
FEATURES
- Digital readout of frequency, time, functions on back-lit LCD panel.
- *DNR® system for reduced noise on tape and radio.
- Separate bass and treble controls.
- 12 station memory (6AM/6FM) and automatic SEEK tuning.
- Logic-controlled auto-reverse mechanism with locking fast-forward and rewind.
- Metal/Cr02 tape capability.
- Built-in 40 watt amplifier.
- 8 1/4"W x 2"H x 5 1/8"D.

*DNR is a registered trademark of National Semiconductor Corp.

AUDIOVOX HI-FI ELECTRONICALLY TUNED AM/FM/MPX RADIO WITH AUTO-REVERSE CASSETTE PLAYER AND QUARTZ CLOCK

MODEL AVX-965

OUR PRICE **$225.00**



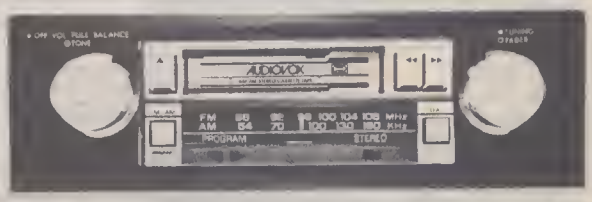
FEATURES
- Back-lit LCD panel for display of frequency, time functions.
- Dolby® * noise reduction system and Metal Cr02 tape capability.
- Music sensor automatically locates next tape selection in fast wind modes.
- Logic-controlled cassette mechanism with key-off tape protection system.
- Loudness contour and independent base and treble controls.
- Super-Reach FM circuitry with local/distant and FM muting switch.
- 12 station memory and automatic SEEK function.
- 4-way balance controls.
- Built-in 50 watt maximum power output amplifier.
- 6 1/4"W x 2"H x 5 1/6"D.

*Dolby® is a registered trademark of Dolby Laboratories, Inc.

AUDIVOX AM/FM STERO RADIO WITH AUTO-REVERSE CASSETTE PLAYER

MODEL AVX-3200

OUR PRICE **$69.95**

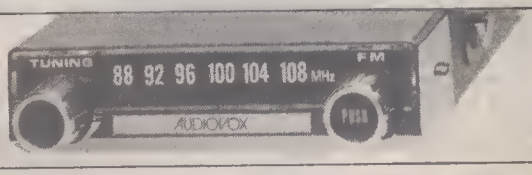


FEATURES
- Independent locking fast-forward and rewind controls.
- Cassette program selector with LED indicator lights.
- Pushbutton band selector.
- FM local/distant reception switch.
- 4-way balance controls.
- LED function indicators.
- 14 watts maximum stereo power.
- Adjustable shafts.
- 7"W x 2"H x 5"D.

AUDIOVOX MICRO-FM CONVERTER

MODEL FMC-IC

OUR PRICE **$14.95**



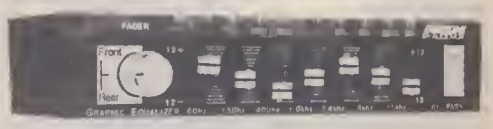
DESCRIPTION

The most popular FM converter on the market today! Converts and AM car radio to an FM radio. The FMC-IC is so small it can be mounted under the dash, out of sight to avoid theft.

AUDIOVOX 7-BAND 50 WATT GRAPHIC EQUALIZER W/DUAL POWER METERS

MODEL AMP-775

OUR PRICE **$49.95**



FEATURES
- Dual 5 segment LED power meters.
- 7-band graphic equalization.
- By-pass selector.
- Built-in fader.
- Can be used with any system including floating ground and bridged types.
- 20—30,000 Hz response.

AUDIOVOX SOUND EXPLODER 40 WATT STEREO POWER AMPLIFIER

MODEL AMP-500 OUR PRICE **$19.95**

NEW!

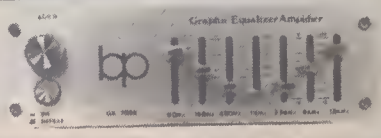
FEATURES
- Increases stereo system output to 40 watts.
- Slim-line design.
- Installs under dash.
- Push-button on-off switch with indicator light.
- Compatible with groundad output systems.
- 20-30,000 Hz response.

BP 7 BAND GRAPHIC EQUALIZER

MODEL GE-7000

OUR PRICE **$35.00**

FEATURES
- 60 watts.
- 7 bands.
- Deluxe model.
- Fader.
- Stereo.



AUTO STEREOS

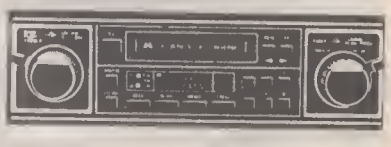
MIDLAND IN-DASH AUTO-STOP CASSETTE PLAYER WITH AM/FM/STEREO RADIO

MODEL 67-434 **OUR PRICE $39.95**

DESCRIPTION

Radio with illuminated frequency scale in cassette door, local/distant switch, FM stereo light. Cassette player with pushbutton fast-forward/eject. Amplifier with tone and balance controls. 5 watts RMS per channel. Fully adjustable shafts, 130 mm to 160mm. Chassis Size: 6 11/16" x 1 3/4" x 4 3/4". 170mm x 47mm x 120mm.

MIDLAND IN-DASH AUTO REVERSE CASSETTE PLAYER AND AM/FM/MPX RADIO WITH ELECTRONIC TUNE



MODEL 67-430 **OUR PRICE $119.95**

DESCRIPTION

Model 67-430 has an electronic digital clock and digital station scanner with 6 station memory lock-in positions. Controls for speaker balance, bass, treble, scan, seek, fast forward, rewind, eject, fader, local/distant. 5 watts per channel. Chassis size: 7" x 2" x 4 15/18". 178mm x 50mm x 125mm.

MIDLAND AM/FM/MPX AUTO-REVERSE IN-DASH CAR RADIO WITH DOLBY

MODEL 67-450D **OUR PRICE $169.95**

DESCRIPTION

Full digital display for radio and clock (time and date). Features six pushbuttons for AM and FM, auto scan of radio frequencies, auto reverse cassette and noise reduction control. 20 watts per channel. Full feature. Chassis size: 7" x 2" x 4 15/16". 178mm x 50mm x 125mm.

MIDLAND DIGITAL E.T.R. AM/FM/MPX RECEIVER WITH AUTO STOP CASSETTE PLAYER

MODEL 67-490 **OUR PRICE $99.95**

DESCRIPTION

Auto-stop deluxe mechanism, electronic digital clock, tape fast forward and eject, fader and balance controls, local-distance switch, ten preset memory lock in, automatic station scan & seek, illuminated liquid crystal, illuminated back panel in high-tech green. 10 watts total power. Chassis size: 7" x 2" x 4 15/16". 178mm x 50mm x 125mm.

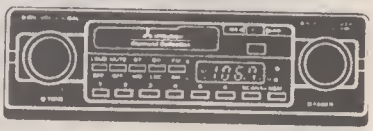
MITSUBISHI CAR AUDIO ELECTRONIC AM/FM CASSETTE

MODEL RX-735 II

OUR PRICE $199.95

FEATURES

- Diamond chassis (2 X 7 X 4-¾").
- Quartz PLL Frequency Synthesizer Circuitry.
- 6-AM and 6-FM electronic programmable memory.
- Automatic SEEK locates next strongest stations.
- Automatic SCAN scans the strongest stations.
- Rotary manual tuning.
- Super DX/LOC circuit.
- Distance/Local Mono/Stereo switch.
- Muting switch.
- Auto-Reverse tape mechanism.
- Cassette door and panel illumination.
- Locking fast forward and fast rewind.
- Tape program selector.
- "Pinch-off" tape protection.
- Digital display for clock and frequency.
- Adjustable shafts.
- Maximum 6 watts RMS per channel at 4 ohms.
- Loudness control switch.
- Fader and balance controls.
- Power antenna lead.



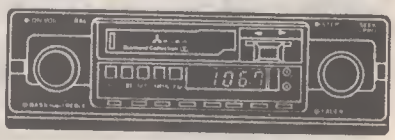
MITSUBISHI CAR AUDIO ELECTRONIC AM/FM CASSETTE

MODEL RX-737

OUR PRICE $239.95

FEATURES

- Diamond chassis (2 X 7 X 4-¾").
- Quartz PLL Frequency Synthesizer Circuitry.
- 6-AM and 6-FM electronic programmable memory.
- Automatic seek locates next strongest station.
- Automatic scan, scans the strongest stations.
- Rotary manual tuning.
- 7 watts RMS maximum per channel at 4 ohms.
- Auto-reverse tape mechanism.
- Locking fast forward and fast rewind.
- Tape program selector.
- Metal/CrO2 EQ switch.
- MPS (Music Program Sensor).
- "Pinch-off" tape protection.
- Loudness control.
- Dolby® noise reduction for tape.
- Fader and balance controls for 4 speaker system.
- Separate bass and treble controls.
- SRC (Stereo Reception Control).
- FM stereo, memory, Dolby, MPS, metal tape end direction indicators.
- Digital display for clock frequency.
- Adjustable shafts.
- Illumination dimming lead.
- Power antenna lead.
- Cassette driver and panel illumination.



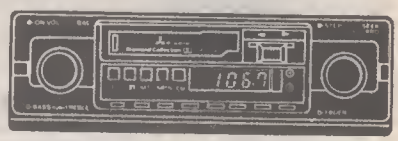
MITSUBISHI CAR AUDIO ELECTRONIC AM/FM CASSETTE COMPONENT

MODEL CZ-757

OUR PRICE $249.95

FEATURES

- Diamond chassis (2 X 7 X 4-¾").
- Low level output through DIN connector.
- Electronic memory programmable for recall of up to 6-FM and 6-AM.
- Automatic seek function locates next strongest station.
- Automatic scan function scans the strongest station.
- Rotary step-up and down function tunes stations manually.
- Loudness control switch.
- Fader and Balance controls for 4-speaker system.
- Separate base & treble controls.
- Auto-reverse mechanism.
- Locking fast-forward and fast-rewind.
- Dolby noise reduction for tape.
- Metal/CrO2 EQ switch.
- MPS (Music Program Sensor) switch.
- Tape program selector.
- Pinch-off mechanism for tape protection.
- Digital clock.
- Power antenna lead.
- Cassette door and nose illumination.
- Dolby, MPS, Metal/CrO2, FM stereo, memory and tape direction indicators.
- DIN to RCA kit available. (Kit CL-150).
- Pre-Amp output voltage 500MV.



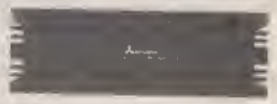
MITSUBISHI CAR AUDIO 100 WATT AMPLIFIER

MODEL CV-251

OUR PRICE $89.90

FEATURES

- Four-channel amplifier produces 25 watts RMS maximum per channel at 4 ohms.
- Compact design 2 X 5-¾ x 6-¼".
- Balanced transformer less (BLT) circuitry.
- Aluminum die-cast chassis.
- Plug-in compatibility with CZ-757 and CZ-727.



MITSUBISHI CAR AUDIO 60 WATT EQUALIZER/AMPLIFIER

MODEL CV-23

OUR PRICE $79.95 **NEW!**

FEATURES

- Six-position graphic equalizer.
- Two-channel amplifier produces 30 watts RMS maximum per channel.
- Fader and balance control.
- Two-channel power level indicator.
- Plug-in adaptability with CX-21 deck.
- Compatible with Auto Modules Using KIT DIN-3.
- Compatible with Regular Power "RX" Series Hi-Level connection using KIT—LEAD-21.
- Note: CV-23 is not a compatible power source for CZ-757.

SANYO AM/FM STEREO CASSETTE PLAYER

MODEL FTU-5
REG. $69.95
OUR PRICE **$54.95**

FEATURES
- Mini-aize chassis.
- Auto-stop at end of tape (from pley mode).
- Fixed control shafts (130mm).
- Locking faet forwerd.
- EZ-C Install mounting system.
- Automatically switchss from stereo to mono in weak signal areas.
- Local/distant switch.
- Pushbutton eject.
- Separate volume, belence, and tone controla.
- Bright, easy-to-see tape pley indicator.
- Built-in antenne socket.
- AM/FM band selector.
- Dimensions: (HWD) 1-11/16 x 6-1/4 x 4-1/2".

SANYO AM/FM CASSETTE CAR STEREO WITH AUTO REVERSE

MODEL FTC-28
REG. $89.95
OUR PRICE **$64.50**

FEATURES
- Senyo's auto-reverse mechenism.
- Automatic FM atereo/mono switching.
- LED FM atereo indicator.
- Locking fast forward and rewind.
- Adjustable control shaft.
- Local distant switch.
- EZ-C Install system.
- Separete tone and belance controls.

SANYO AM/FM STEREO CASSETTE PLAYER WITH AMSS AND AUTOMATIC REVERSE

MODEL FTC-36
OUR PRICE **$79.95**

NEW!

FEATURES
- Autometic tepe aearching.
- Full auto-reverse.
- Sensitive PLL tuner section.
- Locking feet forwerd and rewind.
- EZ-C Install mounting aystem.
- Automatic music aelect system.
- Seperete tone, volume and belance controls.
- Control for motorized antennas.

SANYO HIGH POWER AM/FM STEREO CASSETTE PLAYER WITH METAL TAPE CAPABILITY

MODEL FTC-38
REG. $119.95
OUR PRICE **$79.95**

FEATURES
- Powerful built-in 9.5 watt per channel amp.
- LED indicators for tape direction and FM stereo.
- Full euto-reverae.
- Metal tape compatibility.
- Locking fast forward end rewind.
- Locai distant switch.
- Adjusteble control shafts.
- Control for motorized antennas.
- EZ-C install system.

SANYO AM/FM STEREO CASSETTE RECEIVERS WITH ELECTRONIC TUNING, AUTO REVERSE, DOBLY* NOISE REDUCTION, 9.5 WATTS PER CHANNEL (RMS) AND METAL TAPE CAPABILITY

MODEL FTE-20 OUR PRICE **$189.95**

FEATURES
- State-of-the-art electronic tuner uses phase lock loop circuitry to accurately zero in on even distent stetions; elso features memory presets which may be programmed to inatently access 12 of your favorite stations, AM or FM.
- Built-in Auto Reverse mechanism changes tape directions automatically at the end of the caseette, providing greater continuous listening enjoyment. Mey also be menually reversed at any point.
- Dolby noise reduction circuit improves overall signel-to-noise ratio as much as 10dB by reducing tape hiss and background noise.
- Built-in 9.5-watt per chennel power ampilfier (RMS) easily drives 4 speakers with full, rich sound. Fader control adjusts front-to-rear speaker balence.
- All new common sense Key-Off/Eject feature automatically ejecta the cassette when the ignition key is set to the off position; prevents unnecessary wear and tear.
- Plays normel ferric oxide and high-performance metal tapes with proper equalization.
- innovative Tepe Standby feature lets you listen to the radio whenever a caesette is being fast forwarded or rewound.
- Push-button loudness control provides an extra measure of contour snd presence.
- Senyo's FM Optimizer combines Soft Muting, Stereo Noise Control and Autometic Tone Quality Control circuits to assure ideal FM reception.
- A pair of standard, RCA-type line output terminals make it easy to connect outboard components, such as an equalizer or a power amplifier.
- Primery controla and dispieys are beckilt, making them clearly visible, day or night.
- Stereo/Mono switch helps pull in atations too weak to receive in stereo.

FTE-20

FTED-6

MODEL FTED-6 OUR PRICE **$199.95**

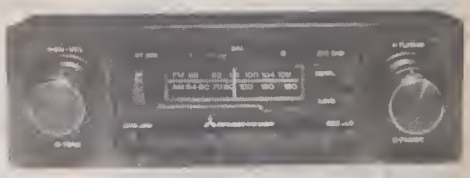
DESCRIPTION Same as above plus:
Ssnyo's FTED-6 has also been outfitted with e revolutionary face plate which permits installation in virtuelly eny cer utilizing the DIN standerd plus many recsnt domestic cars. That includes moat iete model GM, Chrysler and Ford eutomobiles aa well aa the vest mejority of currently evailable European and Japenese imports. Now you cen enjoy the convenience of whet may be the world's most ergonomically designed receiver, no matter whet you drive. The flat-fece design of the FTED-6 makes it extremely easy to operate tuner and tape transport functions.

MITSUBISHI PUSHBUTTON AM/FM CASSETTE

MODEL RX-711
OUR PRICE
$110.00

NEW!

FEATURES
- Full auto-stop at power off and tape end.
- Locking fast forward.
- Tape end indicator.
- Dial in cassette door.
- Herd Permalloy Heed.
- Metal tepe EQ switch.
- Five AM or five FM pushbutton tuning.
- DX/LOC switch.
- Stereo indicetor.
- 6 watts RMS meximum per channel at 4 ohms.
- Loudness control.
- Fader and belance controls for four speaker system.
- Adjuatable shefts.
- Short chassis depth (2 1/2 X 7 3/6 X 4 3/4").



MITSUBISHI AM/FM CASSETTE

MODEL RX-723
OUR PRICE
$99.95

NEW!

FEATURES
- Diamond chassis (1 3/4 X 6 1/4 X 4 1/2).
- Precise manuel tuning.
- DX/LOC switch.
- MO/ST switch.
- 7 watts maximum RMS per chennel at 4 ohme.
- Power Antenne Leed.
- Auto-Stop.
- Tape end indicator.
- Locking fast forward.
- Loudness control switch.
- Fader and belence controls for four speeker aystem.
- Adjustable shafts.
- Horizontal or verticel epplication.

AUTO ACCESSORIES

SUNSENTRY SONIC ALERT
MODEL VPSA-82

OUR PRICE
$69.95

FEATURES
- High-low European siren with over 100 decibels
- Solid state sensor/control module with built-in, adjustable sound sensor, entry delay and automatic shut-off and reset
- In-line fuse
- Wire, terminals and mounting hardware
- Simple installation instructions
- Full one year warranty

DESCRIPTION
Combining easy installation with the theft-discouraging protection of an audible alarm, Sonic Alert is SunSentry's latest innovation in automotive security systems. Sonic Alert's compact sensor/control module quickly mounts out of the way in most any vehicle interior. Its built-in micro-sensor eliminates the need for mounting trigger switches to door jamba by distinguishing the sounds of forced entry and sounding the piercing "high-low" siren before a thief has the chance to steal the vehicle or its contents. The alarm automatically shuts off after a few minutes and resets itself to guard against further theft attempts.
Adjustable sensitivity virtually eliminates false alarms and an adjustable entry delay allows the vehicle owner time to enter and deactivate the alarm while giving potential thieves too little time to search for the turn-off switch.
For additional protection, this system maybe combined with most other SunSentry systems/sirens and accessories. Easily installed in any car , van, truck or RV with 12-volt, negative ground electrical system.

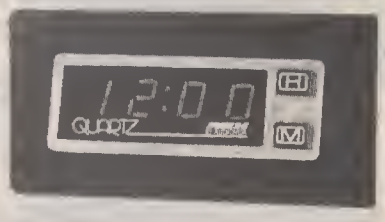
AUDIOVOX NEW!
COMPUTER START
MODEL PRO-6000

OUR PRICE $299.95

DESCRIPTION
Computer Start is a reliable computer system that enables you to start your car by remote control so it will be warm in the winter and cool in the summer, ready to go when you need it. Anyone can effectively use it without jeoperdizing the security of the vehicle or the safety of property and people that may be near it. Models are available for most American and foreign automobiles with systems for either manual or automatic transmissions. Computer Start can be used anywhere, under ideal conditions it will work up to approximately 500 feet.

AUDIOVOX "LE CLOCK" QUARTZ AUTO DIGITAL CLOCK
MODEL LED-80

OUR PRICE $12.95



FEATURES
- Quartz regulated accuracy to one minute a year.
- Brilliant LED display panel.
- Convenient time-set pushbuttons.
- Beautifully gift packaged in woodgrain display carton.
- Includes indash mounting bezel.
- Micro-sized for in, on or underdash mounting.

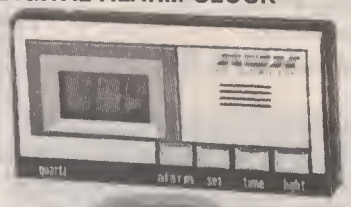
PAGE ALERT RADIO FREQUENCY TRANSMITTER
MODEL 4000

OUR PRICE $99.95each
4 OR MORE $89.95each

DESCRIPTION
PAGE ALERT SYSTEM's new PAGE ALERT 4000 is an individually coded 4 WATT radio frequency Transmitter and Pocket Pager Receiver. It is designed to "personally alert" you when your vehicle is being stolen or vandalized. The PAGE ALERT 4000 will call you, and only you, within a transmission range of more than 8 miles (12672 m), depending upon terrain, antenna and atmospheric conditions.
Its new digital system allows you to set your own code, which can be changed in seconds. The Page Alert units are passively operated. This enables the vehicle to always be protected whenever the occupants leave, no forgetting to turn the alarm on. Also, the instructions are written in both English and Spanish. Passive operation may enable you to get a reduction in insurance.

AUDIOVOX MICRO LCD DIGITAL ALARM CLOCK
MODEL LCD-6

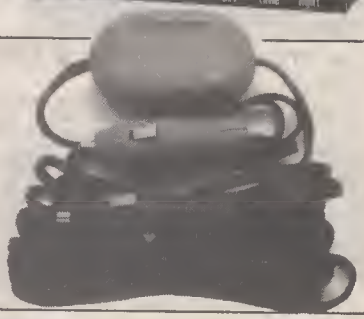
OUR PRICE $12.95



FEATURES
- Quartz regulated accuracy.
- LCD display of time/day—month/alarm set time.
- Audible tone for alarm.
- Self-contained battery.
- Adhere to dash with Velcro adhesive pad for easy removal.
- Built-in desk-top stand.

SNAP IT POSI CHARGE
Charge Your Battery Without Lifting Hood
MODEL POS-1

OUR PRICE $19.95

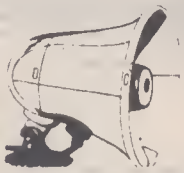


DESCRIPTION
You don't even have to lift your car hood. Just plug one end into your car's lighter end run the cable across and into the running car's lighter. Wait a few minutes, then start right up!

BP INDOOR/OUTDOOR WEATHER RESISTANT 5" HORN
MODEL BP 5000

OUR PRICE $6.50each **5 FOR $30.00**

FEATURES
- 12 watts peak power.
- Used for C.B. and stereo systems.
- 10 ft. cord.
- 3.5mm plug.



BP UNIVERSAL DC ADAPTOR
MODEL CB-200C

OUR PRICE $4.95each
10 FOR $40.00

DESCRIPTION
3 way switch gives instant selection of 12 volt to 6V., 7.5V., 9V. DC at 300 MA output. Use your own car or boat battery to power your portable tape player. CB set, portable radio, etc. Plugs in cigarette lighter receptacle. Comes with 4 way universal plug and battery snap. Contains slide switch and polarity reverse. Pag packaged.

MODEL CB-280 **OUR PRICE $6.95**each **5 FOR $30.00**
- 800 mA.

MITSUBISHI CAR AUDIO
DELUXE BOX TYPE SPEAKERS
MODEL SX-20SA
OUR PRICE
$74.95per pair

FEATURES
- 30W peak power, 4 ohms.
- Two-way, acoustic, air suspension type.
- 4", 10 oz. woofer and 1", 5 oz. tweeter, 4 ohm.
- Aluminum die cast cabinet.

MITSUBISHI CAR AUDIO
6"x 9" THREE WAY SPEAKERS
MODEL SG-69TB
OUR PRICE
$89.90per pair

FEATURES
- 100W peak power, 4 ohms.
- 17.4 oz. woofer magnet.
- Frequency response 50-20 kHz.
- Grills, wires included.

MITSUBISHI CAR AUDIO
5-1/4" ROUND TWO-WAY SPEAKERS
MODEL SG-13CD
OUR PRICE
$54.95per pair

FEATURES
- 30W peak power, 4 ohms.
- Aluminum die cast grills included.
- 5.5 oz. magnet.
- Door mounting, wires included.
- Waterproof cover.

BP 6" x 9" 4-WAY SPEAKER KIT
MODEL BP-2000-69QRD

OUR PRICE **$29.95** pair

SPECIFICATIONS
- Two 6" x 9" 4-wey speakers
- Two 1" horn tweeters.
- One 3" midrenge.
- Chrome bridge — foem roll.
- Deluxe grilles end cebles.

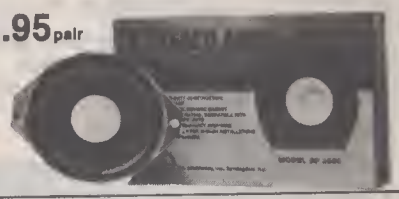
BP 6" x 9" SPEAKER KIT
MODEL BP-2000-69CXD

OUR PRICE **$19.95** pair

SPECIFICATIONS
- 20 oz. ceremic megnet.
- Cloth roll air suspended woofer.
- Separete 3" high efficiency tweeter.
- Frequency response: 70-15,000 Hz.
- Meximum power: 25 wette.
- Impedence: 6 ohm.
- Two 6" x 9" coexiel speekers, custom pedded grilles, hardwere, cables end instructions.

BP 3-1/2" SPEAKER KIT
MODEL BP-3500 OUR PRICE **$9.95** pair

SPECIFICATIONS
- Two 3-1/2" speekers.
- 3 oz. ceramic megnet.
- Air suspension.
- For in-desh installations.
- Compatible with 4 ohm and 8 ohm tepe units.



BP 4" AIR SUSPENSION 10 OZ. STEREO SPEAKER SYSTEM
MODEL BP-4100 OUR PRICE **$14.95** pair

SPECIFICATIONS
- Two 4" epeekere.
- Impedence: 8 ohms.
- Meximum power: 15 wetts.
- Frequency response: 50-20,000 Hz.
- Foem edge.
- Complete with ceble and grilles.

BP 4" COAX 10 OZ. STEREO SPEAKER SYSTEM
MODEL BP-4200

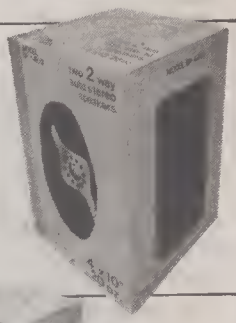
OUR PRICE **$19.95** pair

SPECIFICATIONS
- Two 4" coex speekers.
- Impedence: 8 ohme.
- Frequency response: 120-20,000 Hz.
- Foem edge.
- Complete with cebles end grilles.

BP 4" x 10" COAXIAL SPEAKER KIT
MODEL BP-4800

OUR PRICE **$26.95** pair

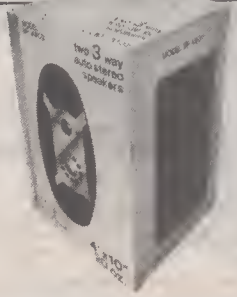
SPECIFICATIONS
- Two 4" x 10" coex speekers
- 20 oz. megnet.
- Chrome bridge.
- Foem edge air suspension
- Deluxe grilles and cables



BP 4" x 10" THREE-WAY SPEAKER KIT
MODEL BP-4900

OUR PRICE **$29.95** pair

SPECIFICATIONS
- Two 4" x 10" three-way speakers.
- 20 oz. megnet.
- Foem edge air suspenelon.
- Chrome bridge.
- Deluxe grilles end cebles.
- **Display package.**



BP 5" WEDGE SPEAKER
MODEL BP 5300

OUR PRICE **$7.50** per pair

FEATURES
- ABS plestic.
- 3 oz. ceremic megnet.
- With speeker ceblee.

BP THREE-WAY MINI SPEAKER WITH BRACKETS
MODEL HF-9

OUR PRICE **$29.95** per pair

DESCRIPTION
The mini speeker with mexi sound

SPECIFICATION
- Die cest eluminum.
- 3" Long throw woofer.
- 1" Soft dome tweeter.
- 2" Extended midrenge speaker.
- Frequency responee 80-20,000 Hz..
- Impedance: 8 ohms.
- Maximum power: 50 wetts.
- Dimensions: 7-1/4"W x 4-1/2"H x 4-3/8"D

BP DELUXE HIGH FIDELITY 2-WAY STEREO SPEAKER SYSTEM
MODEL HF-10

OUR PRICE **$34.95** per pair

FEATURES
- Competible for cer stereo uee or home.
- Heet reelstent cebinet.
- Surface mounting.
- 2-wey.

SPECIFICATIONS
- Power: Nom. 15W Mex. 25W.
- Impedence: 4 ohms.
- Groes Weight: 3.5 lbs. (1.60Kg).
- Quentity: 2 pieces.

BP 5" DELUXE EXTRA SLIM STEREO SPEAKER KIT
MODEL BP-5700

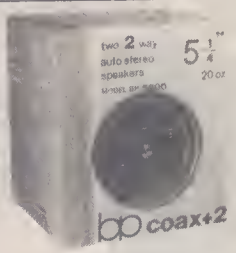
OUR PRICE **$14.95** pair

SPECIFICATIONS
- Air suspension.
- Impedance: 8 ohms.
- Maximum power: 8 watts.
- Deluxe grilles and cebles included.
- Designed for imported cars.

BP 5-1/4" COAX SPEAKER KIT
MODEL BP-5800

OUR PRICE **$19.95** pair

SPECIFICATIONS
- Two 5-1/4" coex speakers.
- 20 oz. magnet.
- Chrome bridge.
- Foam roll, padded grilles end cables.
- **Display package.**



BP THREE-WAY 5-1/4" SPEAKER KIT
MODEL BP-5900

OUR PRICE **$24.95** pair

SPECIFICATIONS
- Two 5-1/4" three-way speakers.
- 20 oz. megnet.
- Chrome bridge — foam roll.
- Deluxe grilles end cables.

BP 5-1/2" COAX EXTRA SLIMLINE STEREO SPEAKER KITMODEL BP-6000

OUR PRICE **$19.95** pair

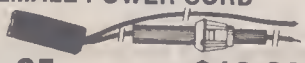
FEATURES
- 5-1/2 two-way speaker system.
- 5.3 oz. ceremic magnet.
- 1" dome tweeter.
- Frequency response: 80-18,000 Hz.
- Meximum power: 15 wetts.
- Impedance: 8 ohms.
- Complete with metallic mesh grilles, hardware end instructions.
- Designed for imported cers.
- Deluxe acousticel design to give maxi sound.

AUTO & STEREO ACCESSORIES

BP LIGHTING ARRESTOR
MODEL CB-566

OUR PRICE **$2.50**
• Net weight: 65 gr. • Display package.

BP 2 PIN FEMALE POWER CORD
With Fuse
MODEL CB-2



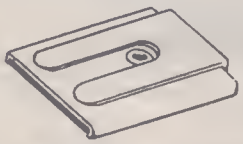
OUR PRICE **$1.25** each 10 FOR **$10.00**

BP 3 PIN FEMALE POWER CORD
With Fuse
MODEL CB-3

OUR PRICE **$1.25** each 10 FOR **$10.00**

BP MAGNETIC MIKE HOLDER
MODEL MH-450

OUR PRICE **59¢** each
10 FOR **$5.00**
Display package.



SELF ADHESIVE MIKE HOLDER
MODEL MH-440

OUR PRICE **39¢** each

BP COAX JUMPER CABLES
MODEL CB-535

OUR PRICE **$1.75** each
10 FOR **$12.50**
1-1/2 ft. coax jumper cable. RG-58U coaxial cable with low-loss, preassembles antenna connectors on each end.

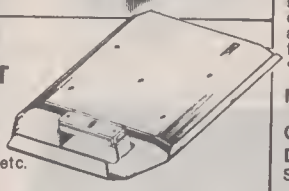
36" COAX JUMPER CABLES
With Connectors
MODEL CB-536

OUR PRICE **$1.95** each 10 FOR **$15.00**

BP DUAL INPUT AUTO ACCESSORY ADAPTOR
MODEL CB-497 OUR PRICE **$3.95**
DESCRIPTION
'Y' type cord with male plug and two female outlets.

BP C.B. LOCK MOUNT BRACKET
MODEL CB-500

OUR PRICE **$4.95**
• For C.B. stereos, radios, etc.
• Display package.



BP COAXIAL CABLE
MODEL RG6U

OUR PRICE **$85.00** each
4 ROLLS FOR **$300.00**
500 ft. rolls. Low loss foam.

MODEL RG58U

OUR PRICE **$32.50** each
4 ROLLS FOR **$120.00**
500 ft. rolls. Low loss foam.

BP REPLACEMENT MIKE CABLE
MODEL MC-60

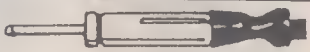
OUR PRICE **$1.50**
DESCRIPTION
Five conductors and one shield. 10 foot long coiled cord when extended. Both ends are stripped end tinned for easy replacement.
•Display package.

MODEL MC-60

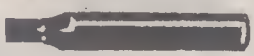
OUR PRICE **$1.25**
DESCRIPTION
Same as above only 6 feet.

BP EXTENSION LEADS

Model	Size	Our Price
AE-12	12"	.90
AE-24	24"	1.00
AE-48	48"	1.20
AE-144	144"	1.75

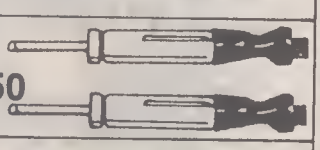


Motorola type plug
Motorola type jack



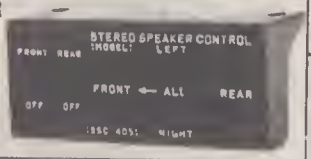
BP SCANNER CABLE
MODEL AA-24 24"

OUR PRICE **$1.49** each 10 FOR **$12.50**
• Motorola type plug. (both ends)



BP AUTO 4 SPEAKER CONTROLLER
MODEL SSC-40

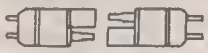
OUR PRICE **$3.95**
DESCRIPTION
Individually controls left and right volume of front and rear speakers. Attractive molded bracket. For 4-16 ohm speakers. Pre-wired.



BP AUTO SPEAKER CONTROL
MODEL AS-1

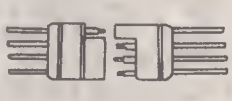
OUR PRICE **$1.50** each
10 FOR **$12.50**
DESCRIPTION
Complete kit contains all components needed for switching between dual speakers.

POLARIZED CONNECTORS
MODEL PC-8



OUR PRICE **$1.50** each 10 FOR **$12.50** any assortment
DESCRIPTION
Fully insulated, available with 2 contacts. Supplied with 18" color coded wire loop.

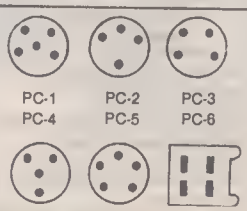
POLARIZED CONNECTORS
MODEL PC-9



OUR PRICE **$1.50** each 10 FOR **$12.50** any assortment
DESCRIPTION
Fully insulated, available with 4 contacts. Supplied with 16" color coded wire loop.

BP POWER CABLES
MODELS PC-1 thru PC-6

OUR PRICE **99¢** each
10 FOR **$9.00** any assortment
DESCRIPTION
Six different power cable assemblies fit practically all auto stereo tape players. Each is equipped with a fuse holder.

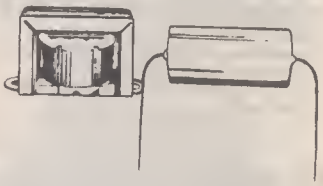


BP CIGARETTE PLUG
MODEL CB-252

OUR PRICE **79¢** each
10 FOR **$7.00** With wire lead.

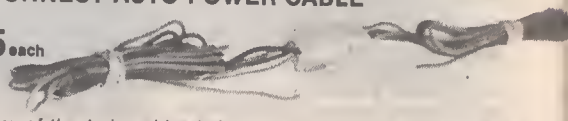
BP AUTO HOT LINE FILTER
MODEL AS-161

OUR PRICE **$2.50** each
5 FOR **$10.00**
FEATURES
• For CB radios and tape players.
• Eliminates or reduces ignition noise thru 'hot' wire or positive lead to battery.
• Complete with capacitor.
• For transistorized units only.



BP QUICK DISCONNECT AUTO POWER CABLE
MODEL PC-7

OUR PRICE **$1.75** each
10 FOR **$15.00**



May be spliced into any of the 4-pin cables below to allow quick removal of tape player.

BP SPEAKER CONTROL
Operates Two Units On One Set Of Speakers
MODEL AS-5

OUR PRICE **$2.50** each 5 FOR **$10.00**
DESCRIPTION
Simple attachment of this speaker selector switch allows the option of using present speakers for two separate audio devices, by switching from one to the other.

BP UNIVERSAL POWER CABLE
MODEL PC-100

OUR PRICE **99¢** each
10 FOR **$9.00**
DESCRIPTION
Universal power cable with interchangeable pin locations to fit any stereo tape player.

BP AUTO ANTENNA 'Y' CONNECTOR
MODEL AS-150

OUR PRICE **$2.50** each
5 FOR **$10.00**
DESCRIPTION
2 Motorola type lugs to 1 Motorola type jack. Flexible 'Y' connector.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

FORDHAM ALL PURPOSE TOOL CASE

NEW!

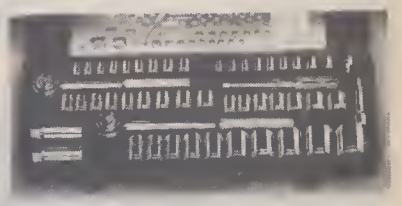
MODEL FTK-28 OUR PRICE $149.95

DESCRIPTION

This 92 piece all purpose tool case has a full range of assorted tools for use in the home or wherever you need them. It has two tool pallets with compartments behind each for storage. The handsome rugged carrying case keeps your tools in order for easy and fast use.

This Kit contains:

1—5-1/4" long nose mini plier; 1—4-3/4" flat point mini plier; 1—4-1/2" diagonal mini plier; 7—piece screwdriver set (1-1/2"x8mm ±2, 1-1/2"x 8mm, 8"x8mm ±2, 8"x6mm, 3"x5mm+, 3"x5mm-, 3"x3mm); 1—10" water pump plier; 1—2M/12FT measuring tape; 1—Utility knife; 1-(8 pc/set) hex key wrench; 3—nut drivers (1/2", 7/18", 3/8"); 1—tire gauge, 1—Crimping tool 8"; 1—7" lineman cutting plier; 1—8" long nose plier; 1—8"diagonal cutting plier; 1—plastic terpedo level; 1—lone nose vise grip plier 8"; 1—8"angle wrench; 1—8" slip joint plier; 1—auto tester; 6 piece combination wrench set (3/8", 7/16", 1/2", 9/16", 5/8", 11/16"); 1 bag (300cs) terminals; 1—3/8" Dr. Universal joint; 1—7" plier; 1—18oz. claw hammer; 1—10" hand saw; 1—10" pry bar; 52 piece socket set.



52 PIECE SOCKET SET

FORDHAM 32 PIECE TOOL KIT

MODEL FTK-4

OUR PRICE $49.95 NEW!

Handy all purpose tool kit for the home or automobile, displayed in a beautiful heavy duty red case.

CONTENTS:

- 5—Socket pieces, 1/2", 10mm, 12mm, 13mm, 17mm, 19mm.
- 1—1/2" DR. Ratchet handle with rubber grip.
- 1—Spark plug socket 1/2" x 21mm.
- 1—Extension bar 1/2" x 5".
- 1—4-Way cross wrench 5/8" x 15".
- 3—Screwdrivers, regular point.
- 3—Screwdrivers, phillips point.
- 1—Hammer 8 oz. • 1—Flexible light.
- 5—Combination wrenches 8-17mm.
- 1—Water pump plier 9-1/2".
- 1—Insulated cutting plier 8".
- 1—Auto voltage tester. • 1—Insulated tape.
- 4—Hex key wrenches 4-8mm.
- 1—Measuring tape 3m/10 ft.

FORDHAM 69 PIECE TOOL KIT

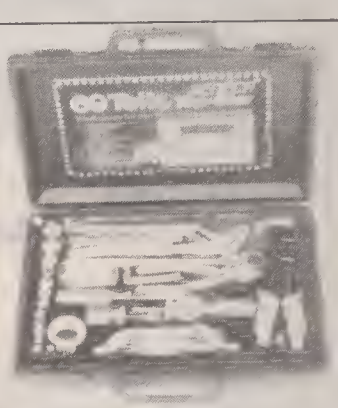
MODEL FTK-5

OUR PRICE $39.95 NEW!

Tools displayed in an attractive black plastic case.

CONTENTS:

- 15—Piece socket set 4-19mm.
- 1—Flexible ratchet.
- 1—Insulated cutting plier 150mm.
- 1—Spark plug socket 20.84mm.
- 1—Spinner.
- 1—Extension bar.
- 1—Water pump plier.
- 6—Combination wrenches 8-17mm.
- 8—Auto guages.
- 3—Screwdrivers.
- 1—Crimping tool.
- 1—Insulated tap.
- 28—Insulated terminals.



SUPERLIFT AIR JACK

MODEL C50.42

For domestic compacts & foreign cars, lifts 2-1/2 tons of live weight up to 17" high.

OUR PRICE $35.00 NEW!

MODEL C60.54

For medium and large American cars as well as most recreational vehicles, pick-ups, vans, boat trailers, campers, off the road vehicles and tractors. Lifts 4 tons of live weight up to 25" high.

OUR PRICE $35.00

DESCRIPTION

The new Superlift Air Jack allows you to change a flat tire anytime on any surface (sand, mud or snow). Simply place this no hassel jack under your car and connect the hose to your exhaust pipe, turn on the motor and it lifts and inflates in less than 14 seconds. It's constructed of triple-coated heat-resistant nylon mesh with high strength welded seams and comes with a one way valve that locks the air in until it's manually released. No tools required and when deflated it folds to a compact 10"x9"x5" size. Getting stuck is no longer a problem. If your vehicle is bogged down in mud, sand or snow all you do is simply jack it up and push the car sideways until it's clear of the rut.

AIR COMPRESSOR WITH WORKLIGHT PRESSURE GAUGE AND FLASHING HAZARD LIGHT

MODEL AC-767

OUR PRICE $39.95 NEW!

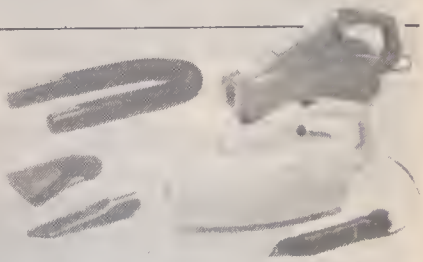
DESCRIPTION

Inflate tires, balls, boats, mattresses, etc., with this new Mini Compressor. It features: 12 ft. cord, with 12V lighter plug; 2.5 ft. air hose, with positive lock valve; two nozzle adaptors, on sports needle; emergency light, for repair, flash signal light, pressure gauge, and low power consumption.
Power required: 12V, 10 amps.

SANYO CAR VACUUM CLEANER

MODEL ZC-18

OUR PRICE $29.95



DESCRIPTION

This exceptional car vacuum cleaner is prepared for your toughest interior. It is powered from your DC 12V car cigarette lighter outlet to give you the added suction power you need. It comes with floor brush and crevice attachments. And, an added bonus, an inflator attachment to inflate beach balls, rafts, air mattresses, etc.

DRIVEGUARD COMPUTERIZED ALCOHOL TESTER

MODEL R-100

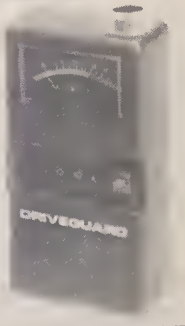
OUR PRICE $59.95 NEW!

DESCRIPTION

The R-100 is an effective breath-analyser which will give you an immediate read-out of your blood-alcohol level. If you know you're over the limit, you simply must not drive.

FEATURES

- Latest solid state circuitry.
- Simple 3 step operation.
- Night view illumination.
- Compact and self-powered.
- Warning indicator for over alcohol level.



WINEGARD FM AUTO RADIO AMPLIFIER

MODEL BF-8809

OUR PRICE $24.95

DESCRIPTION

Solid state booster, amplifies FM radio signals an average of 18 dB (8 times). Improves car radio reception and extends range to allow greater selection of stations. Maximum total input .2 volt, bandpass 88 to 108 mHz. Installs under dash on antenna cable of radio. Switch and indicator light attaches to lower edge of dash near driver. 24" cable with Motorola plugs provided. Installs in minutes with a pair of pliers.

BP AUTO FM BOOSTER

MODEL FM-375

OUR PRICE $9.95 each

DESCRIPTION

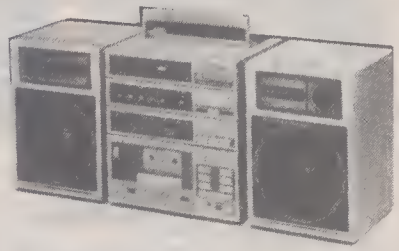
Get those extra miles from your FM stations. Dramatically improves reception of your FM auto radio in Fringe areas.

STEREO EQUIPMENT/CONSUMER ITEMS

SANYO AM/FM STEREO RADIO/CASSETTE RECORDER WITH 5-BAND GRAPHIC EQUALIZER, AUTO REVERSE (RECORD & PLAY), METAL TAPE CAPABILITY, AND DOLBY* NOISE REDUCTION

MODEL C-60

OUR PRICE $219.95

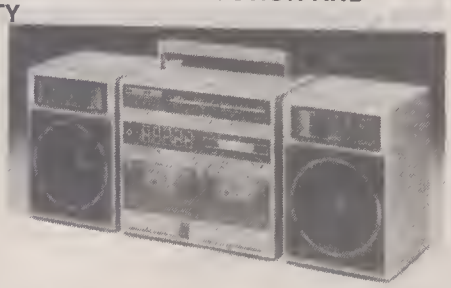


FEATURES
- 5-Band Graphic Equalizer.
- Metal Tape Capability.
- Full Logic Interlock Transport Controls.
- Line-In & Line-Out Jacks.
- AC/DC Operation.
- Auto Reverse Record & Playback.
- Dolby Noise Reduction.
- 5-Segment LED Vu Meter.
- Matching Detachable 2-Way Speakers.

SANYO AM/FM STEREO RADIO/CASSETTE RECORDER WITH DUAL CASSETTE TRANSPORT MECHANISMS, 5-BAND GRAPHIC EQUALIZER, DOLBY NOISE REDUCTION AND METAL TAPE CAPABILITY

MODEL C-40

OUR PRICE $159.95



FEATURES
- 2 Tape Transport Mechanisms.
- Dolby Noise Reduction.
- Detachable 2-Way Speakers.
- Stereo Headphone Jack.
- Synchronized Dubbing System.
- Continuous Playback Mechanism.
- Line-In & Line-Out Jacks.
- 5-Band Graphic Equalizer.
- Metal Tape Capability.
- Auto Stop Mechanism.
- Battery Life Indicator.

BP STEREO GRAPHIC EQUALIZER

MODEL GE-333 **OUR PRICE $89.95**

FEATURES
- 10 band stereo equalizer. • Power switch. • Attenuator control.
- Equalizer On/Recording switch. • Equalizer off switch.
- Tape monitor indicator. • Tape monitor switch. • Octave controls.

DESCRIPTION

Ten band stereo Graphic Equalizer is ideal for home stereo use and a necessity for home recording and listening to music.

SPECIFICATIONS

Semiconductors: ICs: 12. **Transistors:** 2. **Diodes:** 6. **Equalizer Section: Equalizer Range (individual channel adjust):** ±12dB, 32Hz, 64Hz, 125Hz, 250Hz, 500Hz, 1kHz, 2kHz, 4kHz, 6kHz, 16kHz. **Total Harmonic Distortion:** 20Hz — 20kHz, All Control; Flat, Output: 1V 0.01%. 1kHz, All Control; Max., Output: 3V 0.01%. 1kHz, All Control; Flat, Output: 2V 0.01%. 1kHz, All Control; Min., Output: 1V 0.03%. **Insertion Loss:** 0dB (Control; Flat). **Max. Output Voltage:** (1kHz, THD.: 0.02%, RL 47k ohm) 5.5V. **Frequency Response:** 5Hz — 100kHz +0 −3 dB. **Signal to Noise Ratio:** (IHF, A Network, short circuited, 1V Output) 65dB. **Input Impedance:** 50k ohm. **Output Impedance:** 600 ohm. **Miscellaneous: Power Requirement:** LE model, AC220-240V, 50/60 Hz LU model; AC 110V-120V, 50/60 Hz. **Power Consumption:** 15W. **Dimensions (WHD):** 450 x 60 x 240 mm, 17-5/6 x 3-1/6 x 9-4/8 in. **Weight (without package):** 3.5 kg., 7 lb. **Furnished Parts: Operating Instructions:** 1.

SANYO AUDIO CASSETTE DECK

MODEL RD-7

OUR PRICE $59.95

FEATURES
- Metal and CrO_2 Tape Capability.
- Dolby Noise Reduction.
- Single Motor DC Servo Drive.
- Twin 5-Segment LED Vu Meters.
- Stereo Headphone Jack.
- 2 Mic Inputs.
- Line-In & Line-Out Jacks.
- Digital Tape Counter with Reset Button.
- Soft Eject Cassette Door.

SANYO DUAL TRANSPORT STEREO CASSETTE DECK

MODEL RDW-33

OUR PRICE $89.95

FEATURES
- Synchronized Dubbing.
- Metal Tape Capability.
- 5-Segment/2-Color LED Level Meters.
- 2 External Mic Inputs.
- Dolby Noise Reduction.
- Auto Stop Mechanism.
- Stereo Headphone Jack.
- 3-Digit Tape Counter.

AUREX RECORD CLEANER

MODEL DC-32

OUR PRICE $34.95

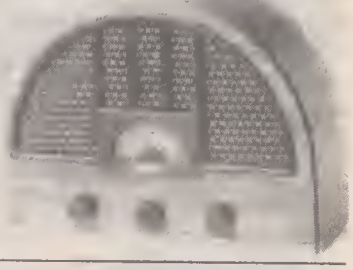
DESCRIPTION

The Record Cleaner by Aurex has a newly developed rotary brush which removes both static electricity and dust from the surface of the record. It can be mounted on your record player or it can clean your record independently on its accessory stand. The new removable brush is gentle to records. It features an auto-stop function, feather-touch switch and LED battery indicator. It operates on 2 "AA" batteries (not included). Comes with case cover, base unit, record adaptor and cleaning brush.

RANDIX NOSTALGIA RADIO

MODEL OTR-98

OUR PRICE $69.95 **NEW!**



DESCRIPTION

Beautifully crafted radio designed to resemble the radios of yesteryear. Reminisce while enjoying the Nostalgia Radio by Randix. It's an AM/FM radio that sports rotary tuning knob, lighted dial, volume control and AM/FM selector. It has a full 4" dynamic speaker and has FM automatic frequency control. The walnut veneer cabinet measures 15"W x 11-1/2"H x 5-3/4"D. It's UL listed and FCC approved.

SANYO TOASTIE — BI-LEVEL TOASTER OVEN WITH TIMER

MODEL SK-2F

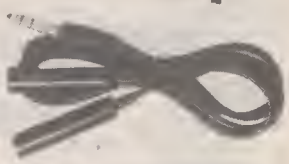
OUR PRICE $44.95 **NEW!**

DESCRIPTION

Ideal for toasting, defrosting, grilling or just warming up foods. Wider inner cabinet dimensions with two cooking levels for fast, efficient preparation of two food portions at the same time. Handy switch permits use of both levels together or only one level. 15-minute timer with shutoff switch and chime. Full-size see-through window for operating convenience. Two baking pans provided. Can also be used in small restaurants for toasting various kinds of food on a continuous basis. Attractive and lightweight design. Dimensions: 7-9/16"W x 7-11/16"D x 12-3/16"H

BP AUDIO CABLE

MODEL HP-3 **OUR PRICE $2.50**



FEATURES
- For two headphones.
- 36" stereo cord.
- 1/4" phone plugs to two stereo 1/4" phone jacks (black).
- Poly with header.

BP AUDIO CABLE

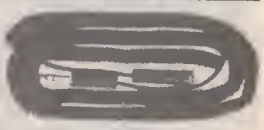
MODEL HP-15 **OUR PRICE $4.99**

- For two headphones.
- 15 ft. coiled cord.
- 1/4" stereo phone plug to two 1/4" stereo phone jacks.
- Poly with header.

BP AUDIO CABLE

MODEL HP-25

OUR PRICE $2.99 each 10 FOR $27.50



FEATURES
- 25 ft. coiled type stereo headphone extension.
- 3 circuit stereo.
- 1/4" phone plug to 3 circuit stereo 1/4" jack.
- Poly with header.

GE CHARGE 8™ 8 POSITION DESKTOP NICAD BATTERY CHARGER

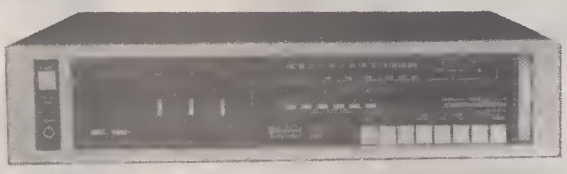
MODEL BC-8 **OUR PRICE $19.95**

GE NICAD BATTERIES

Model	Description	Our Price
NC-15AA	'AA' rechargeable	$3.25
NC-14C	'C' rechargeable	3.75
NC-13D	'D' rechargeable	3.95
NC-9B	9-volt rechargeable	8.95

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

SHERWOOD AM/FM STEREO SYNTHESIZED RECEIVER
MODEL S-2620 CP
OUR PRICE $169.95

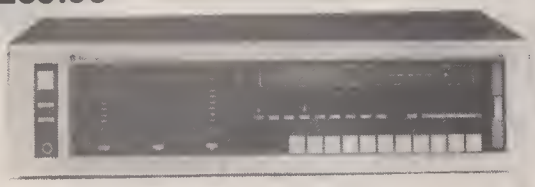


FEATURES
- Typa: Digitally synthasized receivar with 10 prasate (5FM and 5AM).
- Audio Section
  Power output/ch, min RMS at 40Hz-20kHz, 0.5% THD into 8 ohms: 25W + 25W, at 20Hz-20kHz, 0.05% THD into 8 ohms: 20W, at 1kHz, 0.05% THD into 4 ohms: 32W.
  IMD at 20W (SMPTE): 0.05%.
  Dynamic Headroom: 1.3dB.
  Phono input ovarload capability at 1kHz: 140mV.
  S/N ratio: Phono (5mV input) 88dB, Aux 100dB.
  Phono equalization at 30Hz-20kHz: RIAA ±0.5dB.
  Aux Frequancy response with built-in LPF: 5Hz-40kHz.
- FM Section
  Usable sensitivity: 1.9uV (10.8dBf).
  50dB quieting sensitivity: Mono 3.5uV (15.8dBf), Stereo 50uV (39.2dBf).
  S/N Ratio: Stereo 72dB.
  THD: Stereo 0.15%.
  Ceptura Ratio: 1.5dB.
  Alternate Channel Selectivity: 65dB.
  Frequency Rasponse at ±1dB: 30Hz-15kHz.
- Dimensions (WHD): 17-3/8 x 3-3/4 x 11-13/16".

SHERWOOD AM/FM DIGITAL SYNTHESIZED RECEIVER
MODEL S-2640 CP
OUR PRICE $199.95

FEATURES
- Type: Digitally synthesized raceivar with 12 preaats (6FM and 6AM).
- Audio Section
  Power output/ch, min RMS at 40Hz-20kHz, 0.5% THD into 8 ohms: 45W + 45W, at 20Hz-20kHz, 0.05% THD into 8 ohms: 35W, at 1kHz, 0.05% THD into 4 ohms: 53W.
  IMD at 35W (SMPTE): 0.05%.
  Dynamic Headroom: 1.4dB.
  Phono input ovarload capability at 1kHz: 140mV.
  S/N ratio: Phono (5mV input) 88dB, Aux 100dB.
  Phono equalization at 30Hz-20kHz: RIAA ±0.5dB.
  Aux Frequancy rasponse with built-in LPF: 5Hz-40kHz.
- FM Section
  Usable sensitivity: 1.9uV (10.8dBf).
  50dB quieting sensitivity: Mono 3.5uV (15.8dBf), Stereo 50uV (39.2dBf).
  S/N Ratio: Stereo 72dB.
  THD: Starao 0.15%.
  Cepture Ratio: 1.5dB.
  Alternate Channal Selectivity: 85dB.
  Frequancy Responsa at ±1dB: 20Hz-15kHz.
- Dimensions (WHD): 17-3/8 x 3-3/4 x 11-13/16".

SHERWOOD AM/FM DIGITAL SYNTHESIZED RECEIVER
MODEL S-2660 CP
OUR PRICE $289.95



FEATURES
- Type: Digitally synthesizad receiver with 16 presats (8FM and 8AM).
- Audio Section
  Power output/ch, min RMS at 20Hz-20kHz, with no mora then 0.05% THD at 8 ohms: 50W
  Power output/ch, min RMS, 1kHz, 0.05% THD at 4 ohms: 70W.
  IMD at 50W (SMPTE): 0.05%.
  Dynamic Headroom: 1.2dB.
  Phono input overload cepability at 1kHz: 250mV.
  S/N retio: Phono (5mV input) 92dB, Aux 100dB.
  Phono equelizetion et 20Hz-20kHz: RIAA ±0.5dB.
  Aux Frequancy rasponse with built-in LPF: 5Hz-40kHz.
- FM Section
  Useble sensitivity: 1.8uV (10.3dBf).
  50dB quieting sensitivity: Mono 3.2uV (15.3dBf), Stereo 38uV (36.5dBf).
  S/N Ratio: Stereo 75dB.
  THD: Stereo 0.1%.
  Capture Ratio: 1.2dB.
  Alternete Channal Selectivity: 70dB.
  Frequency Response et ±1dB: 20Hz-15kHz.
- Dimensions (WHD): 17-3/8 x 4-3/8 x 13-3/4".

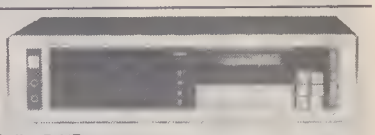
SHERWOOD MTD TURNTABLE
MODEL ST-880
OUR PRICE $89.95

DESCRIPTION
- Type: 2-spaed, belt drive semi-eutomatic turnteble.
- Specifications
  Pletter Motor: 4 pole, AC eynchronous.
  Wow and Flutter (WRMS): 0.08%.
  Rumbia (DIN B): 55dB.
  Effective langth of toneerm: 218.1mm.
  Ovarhang: 19.1mm.
  Offsat engle: 25.3°.
  Trecking arror: +3°–1°.
- Dimensions (WHD): 16-5/8 x 4-5/8 x 14-3/18".

SHERWOOD MTD TURNTABLE
MODEL ST-890
OUR PRICE $109.95

DESCRIPTION
- Type: 2-spaed, diract driva semi-autometic turnteble.
- Spacificetions
  Plattar Motor: DC FG Sarvo.
  Pitch control: ±4%.
  Wow end Fiuttar (WRMS): 0.05%.
  Rumbla (DIN B): 85dB.
  Effective length of toneerm: 218.1mm.
  Overhang: 19.1mm.
  Offsat angle: 25.3°.
  Trecking error: +3°–1°.
- Dimensions (WHD): 17-5/16 x 5 x 14-7/8".

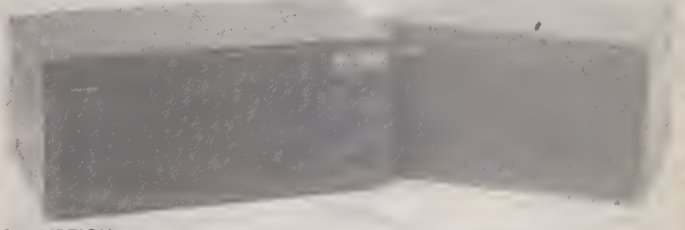
SHERWOOD
METAL CASSETTE DECK
MODEL S-150 CP
OUR PRICE $139.95



- Typa: Soft touch metei cassatte deck with Dolby B NR.
- Spacificetions
  Frequency response (REC/PB): 30Hz-18kHz W/Matei, 30Hz-18.5kHz W/Chroma, 30Hz-15kHz W/Normal.
  S/N ratio W/Chroma: 88dB et Dolby B NR, 57dB et NR off.
  THD: 1% W/Chroma at 1 kHz, 0dB, REC/PB.
  Wow and Fluttar (WRMS): 0.07%.
  Input Saneitivity/Impadanca: Lina 70mV/47 K ohms, Mic 0.3mV/4.7 K ohms.
  Output level/impedanca: 400mV/1.2 K ohms.
  Fast rewind tima: 105 sec.
- Dimensions (WHD): 17-3/8 x 4-3/8 x 11-13/16"

PROTON 300 AM/FM TABLE RADIO AND 301 POWERED LOUDSPEAKER SYSTEM
MODEL 300/301 **OUR PRICE $369.95** **NEW!**

DIMENSIONS:
300: 11-3/8"W x 6-5/8"H x 8-1/4"D
301: 11-1/2"W x 8-1/2"H x 8-1/4"D



DESCRIPTION
The Proton Model 300 AM/FM teble radio, with its alagently undarstatad appaarence, eimpla operetion and axceptionai performanca, ie the product of choice for anyone dasiring e compect end styiish tebletop receiver with uncompromised FM end AM raception. The three-geng J-FET front-end Schotz Tuner provides noise-fraa reception of weak and distant stations end virtuelly eiminates the multipeth-distortion problems thet plegue urben FM recaption.
Bi-amplification: A 4-1/2 inch ecouetic-suspension woofer powerad by e 20 wett emplifiar is electronicelly croesed over to e 1-3/4 inch farrofluid-cooled tweetar driven by its own 5-watt emplifier. Eech amplifier is reted et less than 0.03% total hermonic dietortion. Bi-emplifiecetion echieves e substentiel reduction in the distortions typicel of small two-way systeme end provides e wida frequency renge end a etartling clarity of reproduction. The 300's low-frequency amplifier amploys two epaciel circuits from Proton's component emplifiers: Bess EQ end Anti-Clipping. Acting in concert, the two circuits provida en extended, distortionless bess responsa with stertiing depth end soildity.
Stereo Performance: Simply plug in e model 301 powared speaker end the Proton 300 bacomes a stereo redio of exceptional parformence with over 50 wette of cleen power. Far more then just an axtension spaeker, the 301 includes the aeme eophisticeted bi-emplification technology end drivars used in the 300. Additionel 301 Powered Speakar Systems can ba connected to provida full sterao parformence in up to ten iocetions simulteneously, ell controlled simply end accuretely from the 300 Redio.

AUDIO ACCESSORIES

BP UNIVERSAL AC ADAPTOR
MODEL AC-900

OUR PRICE $3.95 each

10 FOR $37.50

SPECIFICATIONS
- Adaptor for 4, 5, 6, 7.5 or 9 volts.
- Universal 4-way outlet plug.
- Polarity reverse switch.
- Display package.
- Input: 117 volts AC.
- Output: 3.4-1/2, 6.7-1/2 or 9 volts 300 MA.

BP AC ADAPTOR FOR TV & ATARI GAME
MODEL AC-1500

OUR PRICE $5.95 each

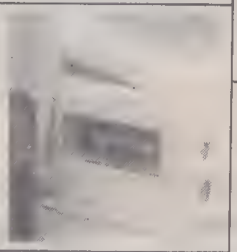
10 FOR $50.00

SPECIFICATIONS
- Adaptor for 9 volts.
- 500 mA.
- Universal 4-way outlet plug.
- Polarity reverse switch.
- Replacement game switch.
- Display package.
- Input: AC 117V 60 Hz.
- Output: DC 9V 500 mA.
- Negative or positive polarity connector.

POCKET BATTERY TESTER
MODEL 0333

OUR PRICE $7.95 each

5 FOR $35.00



- Small and Handy: easy to use.
- Test: 9V end any 1.5V betteries; plus button batterias.
- Meter ehows if batteries are good, low or in need of replacement.

BP INTERFERENCE FILTER
MODEL NF-724

OUR PRICE 99¢ each

10 FOR $9.00

DESCRIPTION
Instantly stops or reduces noise interference transferred by electricel lines. Plug any 117V AC radio, TV, record player, CB set into filter and plug filter into weil outlet. Display packege.

BP NOISE FILTER
MODEL NF-725

OUR PRICE 99¢ each

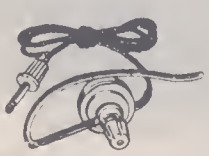
10 FOR $9.00

DESCRIPTION
Eliminates or reduces TV interferance caused by amateur radio, police, CB, auto ignition, neon signs, diethermy, etc. Connects between TV antenna lead and set. Screw terminals. Display package.

BP 20 FT. MAGNETIC EARPIECE
MODEL EP-3

OUR PRICE 90¢ each

10 FOR $7.50



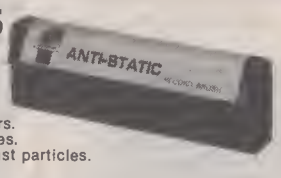
DESCRIPTION
For private listening. Ideel for transistor radios, TV sets, tape recorders, etc. With ear hanger. Twisted cable.

BP 15 FT. REMOTE AC ON/OFF SWITCH
MODEL AC-15

OUR PRICE $3.95

BP ANTI-STATIC CARBON FIBER DISC BRUSH
MODEL RC-1020

OUR PRICE $4.95



FEATURES
- Conductive carbon fibers.
- Eliminates static charges.
- Removes even finest dust particles.
- Record disc cleaner.

BP CASSETTE TAPES
MODEL CT 603

OUR PRICE 99¢ per pkg.

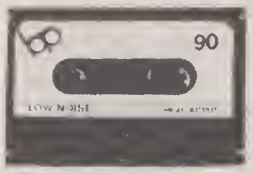
10 pkg. FOR $8.00

60 minute cassettes. Low noise, high output blank cassettes. Full frequency, dynamic range. 3 cassettes per package.

BP CASSETTE TAPES
MODEL CT 903

OUR PRICE $1.25 per pkg.

10 pkg. FOR $10.00



90 minute cassettes. Low noise, high output blank cassettes. Full frequency, dynamic range. 3 cassettes per package.

BSR LATEST ECONOMY MODEL RECORD CHANGER
MODEL BSR-129 OUR PRICE $36.95 each

4 FOR

$140.00

DESCRIPTION
Designed for shallow installations. Ideally suited for replacement use or for use in a budget Hi-Fi system. Complete with latest type low mass tubular tone arm with slim line integrated head, stereo cartridge.

BP UNIVERSAL PLUG IN HEADSHELL
MODEL HS-96 black

OUR PRICE $2.95 each

5 FOR $12.50

MODEL HS-97 chrome

OUR PRICE $3.25 each

5 FOR $15.00

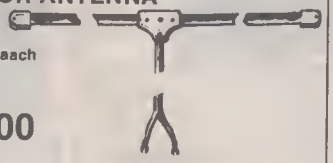
- Fits all the latest turntables.
- Display packaga.

BP FM INDOOR ANTENNA
MODEL FM-400

OUR PRICE 75¢ each

10 FOR $6.90

100 FOR $59.00

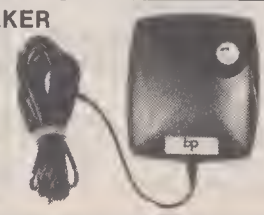


DESCRIPTION
Folded dipole design. 60" dipole and 60" lead. Connects to terminals on radio, improves FM and multiplex—stereo reception. Display packaga.

BP PILLOW SPEAKER
MODEL PS-11

OUR PRICE

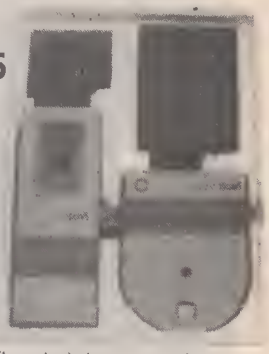
$4.95



DESCRIPTION
With volume control and 10 ft. cord with 3.5mm plug. Can be connected to TV, radio, phonograph or tape recorder.

CHANNEL SCAN TV REMOTE CONTROL
MODEL CHAN-1

OUR PRICE $19.95



FEATURES
- Chenges VHF channele.
- No tools required.
- No special wiring (just plug into outlet).
- You Insteli in minutes.
- Turns set On and Off.
- Illumineted channel indicator.
- Fully essembled (with 25 ft. low voltage wire).
- Easy to use.

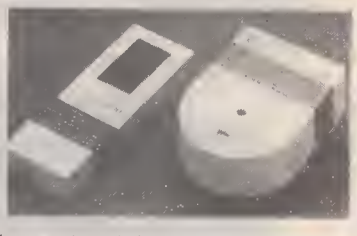
DESCRIPTION
Introducing ChennelScan...The patented power remote control you add to your present TV. You do it all yourself easily. Beceuse to Insteil ChannelScan, you don't need e TV technician or repairman. Or buy anything else. Not even batteries. Works on most TV's, color or black and white, portable or console. ChannelScan converts eny TV with a turret tuner (rotery knob)—regardiess of make or model—into remote control in minutes. Not suitable for sets with pushbutton chennel selection.

CHANNELSCAN WIRELESS TV REMOTE CONTROL
HAS SLEEP SHUT-OFF!

MODEL SC-50

OUR PRICE

$39.95



DESCRIPTION
ChannelScan wireless remote control turns your existing TV, with rotery dial selection, into a remote control model. Its exclusive automatic sleep shut-off allows you to fell esleep without worrying ebout the TV being on all night. Just set the control for 30 or 60 minutes and at those respective times the TV will shut itself off. It Insteils easily end works up to 20 feet away. You'll heve the convenience of controlling your TV from your most comfortable chair or bed. The infrered wireless handset will change the channels in en upward or downwerd direction. It also requires e 9 volt battery which is included. This remote control will not work with push button electronic tuning, it cannot be converted.

WINEGARD FM BACK OF THE SET SIGNAL BOOSTERS
MODEL FM-3000

OUR PRICE $26.95

DESCRIPTION
BA series emplifiers are an economical, convenient method of improving reception where signal levels are low. BA amps are an ideal solution to marginal reception problems. 300 ohm input/output 88 to 108 mHz.

AMPLI-TENNA ANTENNA AMPLIFIER
MODEL 0300

OUR PRICE $19.95

Delivers high-powered performance with eny indoor antenne.

ADVANTAGES
- Sharper, clearer color and black end white reception.
- Greatly improves VHF or UHF reception.
- Reduces "snow".
- Actually brightens picture.
- Improves color stability.
- Brings in cleaner FM and FM stereo sound.

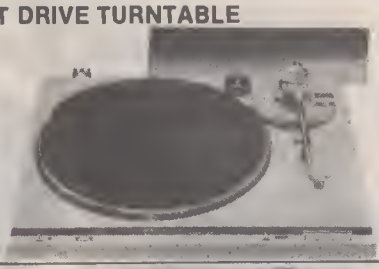
FEATURES
- Advanced solid state emplifier for UHF, VHF or FM.
- UL approved, low-voltage, AC power supply.
- Delivers up to 15 dB gain.
- Excellent signal-to-noise retio.
- Extremely accurate impedance match (VSWR 2:1).
- 300 ohm input and output.
- Compact, easy-to-mount units.
- Twinlead and spade lugs provided.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

TECHNICS P-MOUNT BELT DRIVE TURNTABLE

MODEL SL-B100

OUR PRICE $79.95



FEATURES
- Manual.
- Belt drive.
- New Plug-in cartridge design.
- Straight tonearm with 4 point gimbal suspension.
- Low profile design.
- All front panel controls including cueing.
- Electronic speed switching.
- Variable pitch controls ±6% with strobe.

PICKERING P-MOUNT CARTRIDGES

Direct Plug-In Series

Model	Retail	Our Price
TL-3	$125.00	$34.00
TL-2S	100.00	25.00
TL-2E	60.00	19.80
TL-1	60.00	17.95

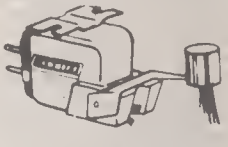
Special Plug-In Series

Model	Retail	Our Price
TLE	$ 45.00	$9.95

PICKERING CARTRIDGES

XV-15 DCF Stereo Series with Duetemetic®

Model	Retail	Our Price
XV-15/1200E	$92.00	$42.00
XV-15/750E	74.75	38.00
XV-15/625E	69.00	24.00
XV-15/400E	62.95	24.00



Low Impedance Cartridge Series

Model	Retail	Our Price
XLZ/7500S	220.00	$95.00
XLZ/4500S	150.00	70.00
XLZ/3500E	125.00	50.00

XSV Series with Stereohedron Stylus Tip®

Model	Retail	Our Price
XSV/5000	$200.00	$99.95
XSV/4000	160.00	77.00
XSV/3000	115.00	59.00

PICKERING CARTRIDGES

Model	Pkg.	Retail	Our Price
P/ATE	Boxed	$24.95	$9.95
P/AT	Boxed	19.95	8.00
P/AC	Boxed	17.95	5.95

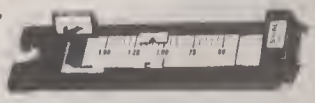
SPECIAL!
MODEL P/AC
OUR PRICE 5 FOR $25.00

STYLUS FORCE GAUGE

MODEL SFG-2

OUR PRICE

$9.95



RECORD CHANGER

MODEL 35-101

OUR PRICE $1.25 each

5 FOR $5.00

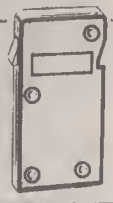
BSR PS 699 (900) for regular size BSR changers: A (10-30); AA47; C (109, 110, 116, 117, 117A3, 123, 123R, 129, 129R, 141R, 142R); MA55; VA (15-55, 15-SST, 25, 30, 35, 47, 55, 65, 70, 75); McDonald 300T 310 (X); 400; 500 (A); 510 (X); 600; 610 (X); 1500; 2500; 4700; 4800 (X); 5500 (T, X); 6500 X.

RECORD CHANGER

MODEL 35-104

OUR PRICE $1.95 each

5 FOR $7.50

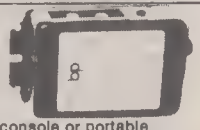


Garrard FLRS-35 for Garrard changers; AT (5, 5LM, 6, 60); Autosilm (P); 30; 40 (B); 60 MK11; SL (55, 55B, 65, 65B, X, X-2); X10; 1000; 1025; 2000; 2025 (T, TC); 3000; 3025; 3500; 4000.

BP STEREO PRE-AMP

MODEL PA-420

OUR PRICE $7.95 **10 FOR $69.00**



DESCRIPTION

Solid state preamp allows use of stereo magnetic cartridge on any console or portable record player. RIAA equalization. Standard phono inputs and outputs. Blister package.

PARSEC FM ANTENNA

MODEL 7403

OUR PRICE $69.95

DESCRIPTION

The PARSEC FM antenna appreciably improves the performance of your FM stereo regardless of its location. When radio signals are too strong they often interfere with each other. PARSEC's FM antenna isolates the signals providing perfect reception on each station. When radio signals are very weak or too weak to be received in stereo, PARSEC's FM antenna amplifies the signals for better reception. PARSEC FM antenna is the first and only indoor FM antenna which is omnidirectional (you do not have to change the position of the antenna when tuning in different stations). It can also amplify signals received by your stereo up to 24dB.

WINEGARD STEREOTRON

MODEL FM-4400 **OUR PRICE**

REG. $74.95 **$39.95**

DESCRIPTION

Even the most expensive FM receiver needs a high quality antenna to deliver clean, undistorted signals for maximum listening pleasure. This unique antenna is the perfect alternative for stereo lovers who can't put up a large outdoor FM antenna. The built-in solid state circuit amplifies FM/stereo signals (66-108 mHz) an average of 5.6 times, while providing optimum signal-to-noise ratio and proper phasing of signals. Receptor bar rotates for directivity.

The housing is walnut brown with gold tone receptor bar and measures 6-1/2" x 5-1/2" x 3-1/2". Width of bar is 19 inches. Complete with 6' coaxial cable and matching transformer to complete installation to FM receiver. Convenient on/off switch and red LED. Operates on 110-117 VAC.

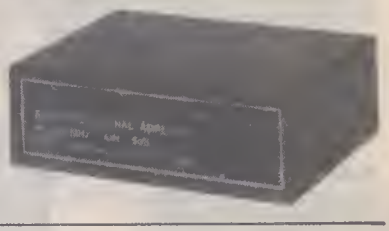
FORDHAM FM INDOOR SIGNAL AMPLIFIER

NEW!

BOOSTS FM SIGNAL FOR BETTER STEREO SOUND

MODEL FM-3018

OUR PRICE $19.95



DESCRIPTION

This amplifier increases FM signal reception in "fringe" areas. It is a high gain RF amplifier, with low noise figure, which can result in good FM stereo sound. A strong local FM station may produce interference in the FM receiver. The amplifier provides 16 dB of gain and uses less than 5 watts of power. For 75 or 300 ohm receiver inputs. AC operation.

SHURE TYPE V CARTRIDGE

MODEL V-15MR **OUR PRICE $159.95**

DESCRIPTION

World's finest cartridge — at any price! A quantum leap forward, with incredibly accurate high frequency trackability, due to the amazing new Shure-developed MicroWall Technology. This revolutionary process yields the highest stiffness-to-mass ratio for any stylus cantilever ... using the properties of Beryllium in an ultra-thin walled tube to create the exclusive MICROWALL/Be™ stylus shank. And, the Type V incorporates a host of Shure's best state-of-the-art improvements into a never-before-combined package for superior sound performance under any conditions, all at a mere 1.0 gram tracking force.

MODEL V-15VB **OUR PRICE $129.95**

V-15 Type V-B. The critically acclaimed V-15 Type V with Shure's exclusive Hyperelliptical Tip and Microwall/Be™ Stylus Shank includes a stylus cleaning brush, leveling-alignment stylus, data booklet and an individual computer print-out, screwdriver and mounting hardware.

MODEL V-15VP **OUR PRICE $119.95**

V-15 Type V-P. Specifically designed for ultimate performance in P-mount tone arms, the V-15 Type V-P includes a stylus cleaning brush, data booklet, an individual computer print-out and screwdriver.

SHURE P-MOUNT CARTRIDGES

MODEL LTP-2 **OUR PRICE $14.95**

SPECIFICATIONS
- **Stylus:** 10 x 16u (.0004 x .0007 in.), biradial elliptical diamond tip. Tan grip.
- **Frequency Response:** 20 to 20,000 Hz.

RECOTON CASSETTE HEAD CLEANING CARTRIDGE

MODEL 71TC

OUR PRICE 89¢ each **10 FOR $7.50**

DESCRIPTION

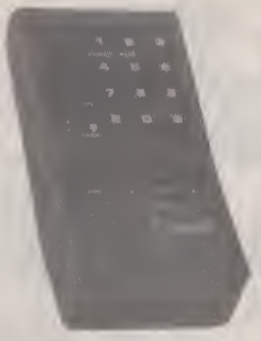
Fits all type players. Avoids costly repairs by removing dirt and oxide from tape head. Easy to use. Cleans instantly.

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

CONSUMER PRODUCTS

BIOTECHNOLOGY THE COACH
MODEL 145

OUR PRICE $149.95



DESCRIPTION
The Coech is e remerkeble personel computer thet provides exectly whet the ethlete, runner, cyclist, weight reducer, Sundey jogger, cerdiec or pulonery rehebilitetion petient needs, by providing the informetion to ellow you to achieve an eerobicelly sound level of exercies. The Coech weight only 3 ouncee end is emeller then e peck of cigerette. Yet it computes your fitnese, monitore your heert rete, records elepeed time, meesures dietence end providee eudio feedbeck of the meximum exercise heert rete. The Coach werns your if your ere in denger of exceeding your limit end unduly streseing your heert. Celories burned during physicel ectivity ere computed precisely es if calculeted by en exercise phyelologist. The runner'e etride is peced with en eudio eignel, to ineure ell dietences ere covered in the most heelth beneficiel time epen. The digitel pedometer is very eccurete for running, bicycling end welking. The digitel epeedometer uniquely computes everege speed besed upon stride, steps end elepsed time. The heert rete monitor is eccurete to e single heertbeet end is ectivated by epecielly designed electrodee. Before using the Coach you enter nine different pereonel stetistics into its memory to creete e progrem tellored for your needs. The Coech is the sefest end eureet wey for you to take cherge of your own body.

BIOTECH BIONAIRE 500 AIR/PURIFIER/IONIZER
MODEL 500

NEW!

OUR PRICE $119.95

DESCRIPTION
The Bionaire 500 AIR/PURIFIER/IONIZER is a technologically advanced filtration and ionization system. It's helpful to asthma, allergy and hayfever sufferers or anyone who finds it important to breathe particulate free air. Up to 95% effective on particles as minute as 0.01 micron and up to 99% effective on all other particulate pollutants. The patented, electrically charged filter and independently controlled ionizer work together to rid the air of particulate irritants such as tobacco smoke, pollen, dust, dirt, ragweed, mold spores, fungi and more. Cleans the average room (10' x 10') 3-1/2 times an hour. Lightweight and portable, only 4.4 lbs. Energy efficient, uses less electricity than a 45 watt light bulb. Quiet enough for bedroom use, while offering maximum control for working enviroments. Will not interfer with radio or TV reception. Tax deductible with a doctor's prescription.
Dimensions: 11"W x 8-1/8"D x 5-1/16"H

BIOTECH ULTRASONIC HUMIDIFIER
MODEL BT-200

OUR PRICE $99.95

FEATURES
- Easy maintenance and cleaning.
- Water Reservoir—full tank (4.9 litres, lasts up to 12 hours.
- Easy refilling.
- Automatic shut-off valve controls water flow into vaporization tray.
- Mist chamber.
- Nozzle swivels a full 360°.
- Control panel to select the desired direction.
- Carrying Handle • Durable Casing.

DESCRIPTION
A compact humidifer for home or office use. Portable and lightweight, BT-200 ultrasonic humidifier fits into any decor. Unlike conventional humidifiers, the BT-200 works on the principle of ultrasonic vaporization, producing a cool mist. The maintenance is easy cleaning, no replacement of foam pads, less chance of bacteria build-up and very low power consumption—only 55 watts at full power.

BIOTECH BIONAIRE 1000
MODEL 1000

OUR PRICE $249.95

NEW!

DESCRIPTION
Bionaire 1000 is the air purifier which removes virtually all air pollution particles. It uses a technologically advanced filtration system with the latest solid state engineering to clean and freshen the air. It removes such particles such as: dirt, dust, soot, ragweed, pollen, mold spores, tobacco smoke and fungi. It cleans the air of an average size room over five times an hour. Quiet enough to use in a bedroom. Uses no more electricity than a 60 watt bulb. It's portable and weighs only 12 lbs. It will not interfere with radio or TV reception and is tax deductible with a doctor's prescription. Allergy, asthma and hay fever sufferers can breathe easier. It is indespensible for anyone who finds it important to breathe particle-free air.

BP ATTACHE CASE with COMBINATION LOCK
MODEL TC-7350R (Burgundy)

OUR PRICE $24.95

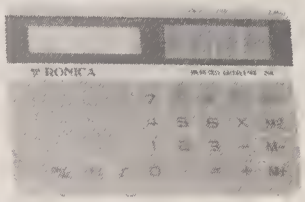
MODEL TC-7350B (Black)

OUR PRICE $24.95

DESCRIPTION
Finely crafted attache case with combination lock is an attractive accessory for the business person. The combination lock secures your belongings and insures your privacy. This case also features an expandable bottom when that little extra space is needed. The pocket divider is a helpful organizer for pens, pencils, calculator, pads and comes in either black or burgundy.
Dimensions: 17½"W x 12½"H x 4"D.

TRONICA CREDIT CARD SIZE CALCULATOR
MODEL 218

OUR PRICE $7.95



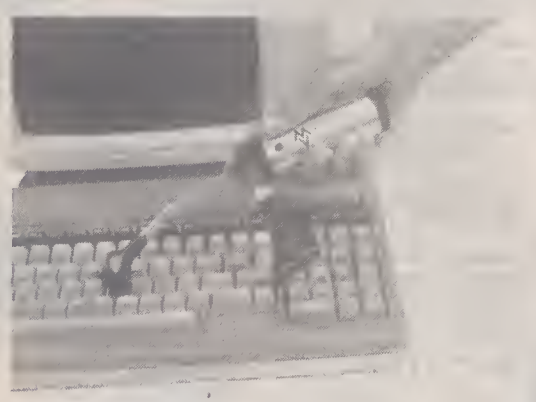
FEATURES
- Powered by light, either indoors or outdoors.
- Liquid crystal display.
- On/AC key, CE/C key.
- Memory keys.
- Automatic constant.
- 16 digit approximate calculation and overflow that lets your know how many digits overflow.

DESCRIPTION
The Tronica's calculator is powered by light either natural or artificial, so it can be operated indoors or out. The power source can be a 30 watt florescent lamp or a 60 watt incandescent lamp.

MINI-VAC MICRO-CLEANER
MODEL MN-1

OUR PRICE
$24.95

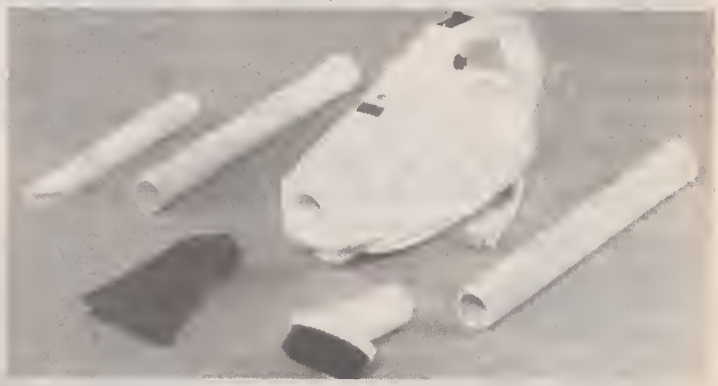
NEW!



DESCRIPTION
MINI-VAC, a revolutionary tool, is designed to remove minute particles of dust and debris. Unlike compressed air, which simply disperses the pollutants, MINI-VAC vacuums them safely away. Compact, efficient, versatile and completely portable. It has vacuum or blower power, finest quality lane brush and all purpose brush, interchangeable direction wands. AC or DC powered (adaptor optional). Use it for cleaning stereo equipment, computers, models, miniatures, video equipment, photography equipment, slides and projectors etc.

SANYO QUICK-CLEAN VACUUM CLEANER
MODEL SC-181 **OUR PRICE $39.95**

NEW!



DESCRIPTION
Clean-ups made easy with the new lightweight hand grip vacuum by Sanyo. When a fast clean-up is necessary this hand vacuum allows you to manuever effortlessly through your home providing you with ample power for a quick straighten. It weighs only 2 lbs. 5 oz. and comes with the same accessories of most larger, more cumbersome vacuums. You are provided with a floor and crevice tool, round brush and two wands. The power cord hooks under the cleaner's body facilitating orderly storage. The vacuum is powered by a 140W motor. Dust disposal is as easy as a touch of a clamp. The power switch itself is located on top of the hand grip. All in all you get the power you need for a quick clean-up without the hassel of dragging out the heavy duty cleaner.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BSR SYSTEM X-10 MINI CONTROLLER
MODEL MC-260

OUR PRICE **$19.95**

DESCRIPTION
Instantly control 4 lights and appliances throughout the house with the push of a button. From one convenient location. Special features, dim and bright key, all lights on key, all units off key.

BSR SYSTEM X-10 TIMER CONSOLE
MODEL TC-211 OUR PRICE **$49.95**

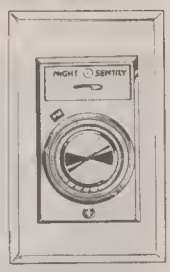
DESCRIPTION
Automatically turns lights and appliances on and off at the times you want. Special feature keys, daily, once, security, sleep, now, all lights on, clear key.

NIGHT SENTRY SOLID STATE TIMER
MODEL WT-341B

OUR PRICE **$19.95** each 2 FOR **$38.00**
Single Pole 1 Switch

MODEL WT-343B

OUR PRICE **$24.95** each 2 FOR **$48.00**
3-way 2 Switches

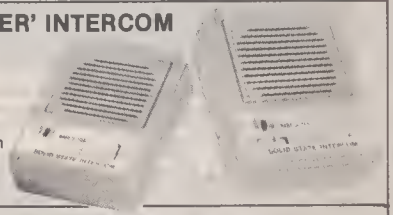


DESCRIPTION
A totally new concept in light timers combines space age features with total solid state technology.

FEATURES
- Convenient. • Reliable.
- Do-it-yourself, installs in minutes. Uses your existing switch plate.
- Memory Module . . . sets itself automatically.
- Turns on and shuts off lights . . . inside and outside, like you do when you're home.
- Protects your property, keeps your house safe from burglars.

BP SOLID STATE 'BABY SITTER' INTERCOM
MODEL IN-1001

OUR PRICE **$9.95** per pair

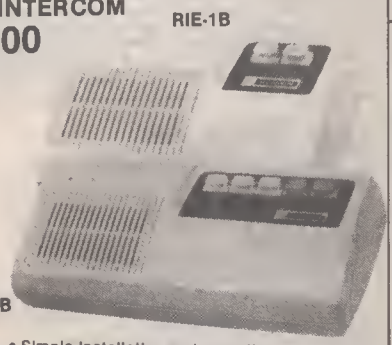


DESCRIPTION
Economical intercom system, ideal for home use, especially as a babysitter. Slave unit with push-to-talk button. Master unit has on/off volume control plus push-to-talk button. Operates on 9-volt battery (not included).

BOGEN MASTER STATION INTERCOM
MODEL IE-4B OUR PRICE **$70.00**

REMOTE STATION
MODEL RE-1B

OUR PRICE **$22.95**



FEATURES IE-4B
- Instant dependable, economical voice communication.
- Master plus up to 3 remotes.
- Tone signal announces calls.
- Annunciator lights show which RIE-1B is calling master.

FEATURES RIE-1B
- Remote converses hands-free.
- Solid state reliability, IC amplifier.
- Compact, attractive design.
- Volume control. • AC or battery operation. • Simple installation and operation.

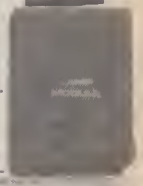
BSR SYSTEM X-10 WALL SWITCH MODULE
With Push Button Control

MODEL WS-711 OUR PRICE **$17.95**

BSR SYSTEM X-10 WALL RECEPTACLE MODULE WITH CUSTOM PLATE
MODEL SR-227 OUR PRICE **$24.95**

BSR SYSTEM X-10 2 PIN POLARIZED APPLIANCE MODULE
MODEL AM-286 OUR PRICE **$16.95**

BSR SYSTEM X-10 LAMP MODULE
MODEL LM-501/511 OUR PRICE **$16.95**



BSR SYSTEM X-10 HEAVY DUTY 220 VOLT APPLIANCE MODULE
15A Pin Configuration

MODEL HD-243 OUR PRICE **$32.00**

BSR SYSTEM X-10 HEAVY DUTY 220 VOLT APPLIANCE MODULE
20A Pin Configuration

MODEL HD-245 OUR PRICE **$34.95**

BP TRI-COM 3 CHANNEL WIRELESS FM INTERCOM
MODEL IN-338

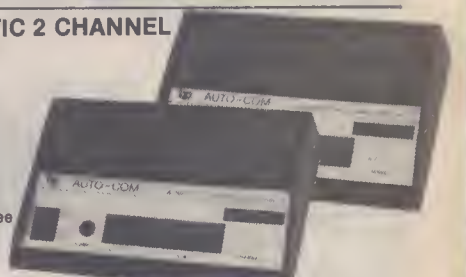
OUR PRICE **$45.55** per pair

FEATURES
- A.B.C. channel selector for 4 station operation.
- Solid state phase lock loop circuitry.
- Lock key for continuous talking or monitoring.
- Frequency modulation to eliminate static.
- Plug into AC outlet. No installation required.

DESCRIPTION
Lock switch permits continuous talking for dictation or monitoring. No warm-up. Simply plug into AC outlets on same side of distribution transformer wiring. System allows four stations operation and can be expanded with add-on units. Units have pilot light and on/off volume control.

BP AUTO-COM AUTOMATIC 2 CHANNEL WIRELESS FM INTERCOM
MODEL IN-828

OUR PRICE **$49.95** per pair

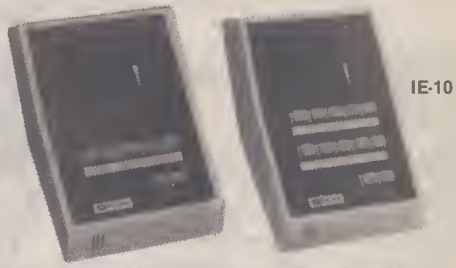


FEATURES
- Fully automatic.
- Lock switch for continuous two-way conversations.
- A.B. channel selectors.
- Automatic squelch control for noise free operation.
- On/off light indicator.
- Phase lock loop circuitry.

DESCRIPTION
Once you press down lock buttons of both units, the whole system becomes completely hands-free. It can also be used as a normal intercom that is press to talk and release to listen. Operates roV): VHF and flat = om-to-room or between houses on same AC electrical wiring.

BOGEN SERIES IE INTERCOMS
MODEL IE-5 OUR PRICE **$85.50**

MODEL IE-10 OUR PRICE **$106.50**



FEATURES
- Push-button communication for offices, business or plant. • All-master or single master/multiple remote systems.
- Multiple channels permit several simultaneous conversations. • Conference calls. • Choice of 5 or 10 button masters.
- 'Talk-lock' button for dictation or nursery monitoring with 'reminder' light. • High reliability solid-state circuitry.
- Combine private and nonprivate remotes as you require. • Tie into paging system for direct paging from master stations.
- Optional relay (TBR-4A) allows PA system to provide talk-back capability. • AC powered-single power supply per system.
- Optional operation from 12 VDC supply with reduced power. • Masters wired with 6 foot cable and junction box.
- All connections made externally. • Modified all-master system provides 'common' remote or 'dedicated' remotes to each master.

DESCRIPTION
Offices, stores factories and homes are only a few of the applications for the hardworking Bogen IE-5 and IE-10 intercoms. You can choose either a single master/multiple remote system (up to 10 remotes, which can operate hands-free) or an all-master system of any size, in which each station can call up to 10 others selectively. In an all-master system, several conversations can take place simultaneously, between different pairs of stations (100% trunkage). Conference calls including several stations are possible too. The IE master are private at all times; they cannot be monitored. Remotes can be private (Model RE-1 releases privacy button for hand-free operation) or non-private. If you wish, you can substitute one remote for a master in an IE-5 all-master system, or two in an IE-10 system for hands-free reply to master. (These remotes cannot originate calls.) You can tie into your PA system for paging from IE masters or—using the TBR-4A accessory—page through two pre-selected speakers which can reply hands-free. Each IE system operates from a single power supply, Model PRS-20.

ACCESSORIES FOR BOGEN INTERCOMS

RE-1B $22.95
RE-1 Remote for IE-5 & IE-10. Can originate call to master in single-master systems and function private or nonprivately (hands-free)as desired. Incorporates speaker/microphone, call and privacy buttons. 16 ohms. Styled to match masters. $26.50
PRS-10 Power supply for IE-5 & IE-10 . . . . . $64.95
TBR-4A $59.95
AWG 22 Cable (Ship. wt. per 100'/30m)
3SC 3-conductor wire (unshielded): Ship wt.: 2 lbs. (9 kg) $14.95
7SC 7-conductor wire (unshielded) Ship wt.; 4 lbs. (1.8 kg) $26.00
12SC 12-conductor wire (unshielded): Ship wt.: 5 lbs. (2.3 kg) $39.95

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

CONSUMER PRODUCTS

FIDELITY
SENSORY CHESS CHALLENGER

MODEL SCC

OUR PRICE **$99.95**

EXTRA SPECIAL!

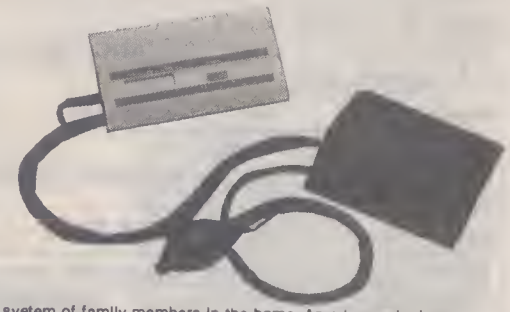
DESCRIPTION
The first thinking chess game that 'sees' every move you make. Sensory Chess Challenger® 'sees' every move you make and records it automatically. Match your skill against the Computer's 'brain'. Improved programming lets you play at any level of difficulty from beginner to expert. Works on batteries or plugs into any home wall outlet . . . play any time, any where!

New sensory playing surface automatically tells the computer your every move—from and to—and which piece was moved. The squares light up to graphically show you the computer's next move. No keys to press—you don't have to learn programming procedures. Sensory Chess Challenger® lets you devote all your attention to the game.

BP DIGITAL PRESSURE/PULSE MONITOR

MODEL DS-91BP

OUR PRICE **$59.95**



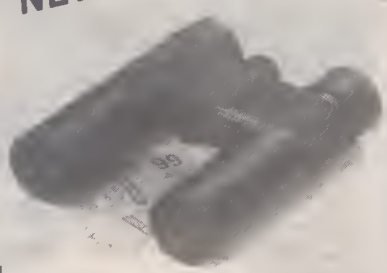
DESCRIPTION
The DS-91 Automatic Digital Pressure and Pulse Rate Monitor is a convenient and easy-to-use instrument for monitoring the cardiovascular system of family members in the home. An advanced microcomputer is built into the DS-91 to ensure a high degree of precision in all measurements. The exceptionally simple operating procedure guarantees that everyone in the family will be able to take blood pressure and pulse rate measurements promptly and accurately. The DS-91 provides a clear, easy-to-read liquid crystal display of both systolic and diastolic blood pressures as well as the pulse rate. Periodic consistent measurement of the pulse rate is important for all individuals in physiotherapy and health training programs. Unit status display indicate what the instrument is measuring in each stage of the procedure. Korotkoff sound (pulse sounds) are also indicated by both a heart mark and a buzzer sound. In addition, the DS-91 displays error messages to warn the user of an error in the operating procedure or other abnormality, such as dead batteries. The built-in timer circuit turns the unit off automatically if the unit is accidentally left on for more than 90 seconds. With microcomputer precision, and advanced design that emphasizes ease of use, and outstanding quality and reliability, the DS-91 is the perfect system for monitoring blood pressures and pulse rates in the home.

HAMINEX BINOCULARS

NEW!

MODEL 224060

OUR PRICE **$69.95**



DESCRIPTION
Most activities can be made more enjoyable with the use of binoculars. Whether you're at a sporting event, engaging in an outdoor recreation such as bird watching, hiking, or indoors at the theatre, ballet or opera, binoculars can intensify the experience. The Haminex 224060 is lightweight, compact, streamlined binoculars that is easy to carry. It features precision ground coated optics, center-focusing, shock resistant, 9-power magnification, and a 21mm lens. Includes rubber eyecups, soft pouch, case and neck strap. Dimensions: 4"W x 5" L x 1"D. Weight: 12 oz.

CASINO KING
GOLDEN JACKPOT SLOT MACHINE

MODEL 6764-B

OUR PRICE

$39.95

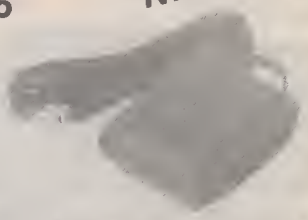
FEATURES
- Mechanically operated—no batteries required.
- Heavy gauge metal body-plastic front panel.
- Plays with pennies, nickels, quarters or no money.
- If coins are used, machine will "Jackpot" when winning combination appears on center line.
- "Jackpot" rings a bell.
- Coin release button in back of machine.
- Fully assembled.
- Individually packed in a four color printed box.
- Dimensions: 11"H x 7-1/2"W x 6-1/2"D.

TT SYSTEMS PRIVACY DEVICE

MODEL PD-1

OUR PRICE **$19.95**

NEW!

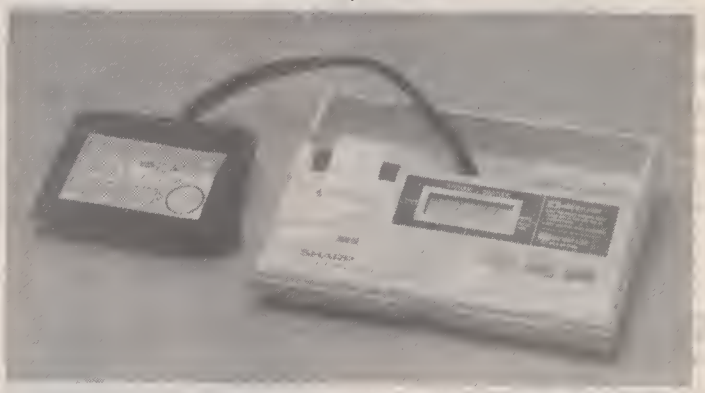


DESCRIPTION
The Privacy Device is an ancillary security product which allows the user to converse via telephone without the concern of having the conversation overheard by an unwanted third party or recorded by an outside tap. Once the privacy device is connected and you are using the line, if your line suddenly becomes dead and your LED indicator is also off this means someone has lifted an extension telephone. Your line will not function until the extension is placed back on the hook. If the telephone you want to use is dead and the LED indicator is out, the telephone line is tapped. You cannot use the telephone until the tap is removed or you override the privacy device. Since the privacy device has dual mode operation you can choose to or not to use the device.

SHARP BLOOD PRESSURE MONITOR WITH DATA PRINTOUT

MODEL MB-371H OUR PRICE **$125.00**

NEW!



The Sharp MB-371H incorporates a microprocessor programed to correctly recognize the individual Korotkoff sound wave forms to automatically measure your systolic and diastolic blood pressure and pulse rate. This ensures that your blood pressure is measured with unprecedented ease and accuracy.
The presettable cuff inflation pressure must be set in advance according to your individual blood pressure value. Should this pressure be too low, the MB-371H will automatically raise the cuff pressure by 30mmHg and remeasure. After positioning the cuff properly just push the inflate button. A built-in pump automatically inflates the cuff, eliminating hand pumping of an inflation bulb. Results are indicated automatically on the digital display. The air in the cuff is then automatically released. The super large liquid crystal display shows complete blood pressure and pulse rate or time/date display, plus it is accurately recorded with the printer. The kit includes printing electronic monitor, cuff, hard carrying case cover, instruction manual, two rolls of recording tape, and record book. It runs on 4 "C" size batteries (not included) or an optional AC adaptor (not included).

COMPASS
BINOLUX BINOCULARS

MODEL 4022

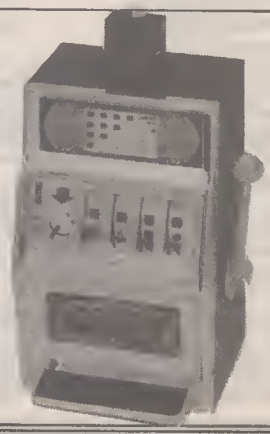
OUR PRICE **$24.95**

DESCRIPTION
The optical construction of binoculars is similar to that of field glasses, except that prisms have been added which reflect the path of the light as illustrated in the diagram. Thus the distance between the objective and the eyepiece has actually been lengthened, and magnification of anywhere from six to twenty power can be obtained without making the glass bulky. Our prismatic binoculars are equipped with achromatic lenses, and rubber eyecups.

CASINO KING
DELUXE SLOT MACHINE

MODEL 6930

OUR PRICE **$89.95**



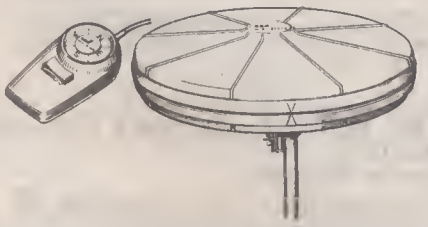
FEATURES
- Light flashes and bell rings when winning combination appears on center line.
- Jumbo sized, heavy gauge metal body and front panel.
- See-thru coin reserve has built in coin separator that accommodates pennies, nickels, dimes, quarters and half dollars.
- Machine will pay with or without coins.
- Fully assembled.
- Four pay off combinations.
- Coin release button in back.
- Mechanically operated (light tower requires two "C" batteries, not included).
- Individually packed in a two color printed box with carry handle.
- Dimensions: 18"H x 12"W x 9"D.

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

TDP MINI-STATE ANTENNAS
UHF & VHF 35 mile range antenna
MODEL 5MS-740

OUR PRICE **$89.95**

A revolutionary new TV antenna system for home or apartment.



AC/DC MINI-STATE ANTENNA UHF & VHF
MODEL 5MS-750

OUR PRICE **$99.95**

A revolutionary new Recreational antenna system for boat or camper.

DESCRIPTION

The New TDP Mini-State Antenna Systems are improved versions of the 5MS-440 and 5MS-550 Mini-State antennas. They have been engineered to bring in sharp, clear TV reception with a new VHF/UHF broadband amplifier. The new amplifier now amplifies the UHF band and has higher gain on VHF. These improvements have also greatly improved the signal to noise ratio of the antenna. The power supply for the new systems has been redesigned to allow easy hook up of additional outlets.

FEATURES for 5MS-740
- Ideal for home or apartment. • Compact (21" diameter and 7" high) and light (8 lbs.).
- Attaches to roof, chimney, window or balcony. • Full circle rotation for trouble-free operation.
- Can also be used indoors in attic or on closet shelf.
- Solid state circuitry for trouble-free operation.
- Everything weather protected in a rugged plastic radome.
- Hand held remote control has unique direction indicator light.
- Includes built-in rotating antenna, amplifier, power supply, remote control unit and hardware. Plus 60 feet lead in cable, housing, co-axial cable and rotator wire.

FEATURES for 5MS-750
- Recreational antenna that can be used for boat or camper. • Designed for outdoor use.
- Power: 120VAC, 12DC. • Enables you to operate from dockside, campsite or home.
- All other features are the same as Model 5MS-740.

JERROLD QUADRAPHONIC 300-OHM FM ANTENNA
MODEL QFM-9

OUR PRICE **$44.95**

NEW!

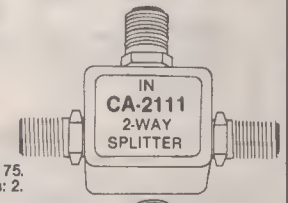
FEATURES
- High-gain, high front-to-back ratio.
- Minimize multi-path distortion.
- Rugged square boom construction.
- Special "Golden Armor" finish.

DESCRIPTION

Jerrold introduces a nine-element Paralog FM antenna designed for superior reception of all FM stereo and FM monaural stations while preparing you for Quadraphonic broadcasts. Flat bandwidth and high gain assures excellent reception of distant stations and a high front-to-back ratio minimizes multi-path distortion. 300-ohm.

BP CATV SPLITTER
MODEL CA-2111

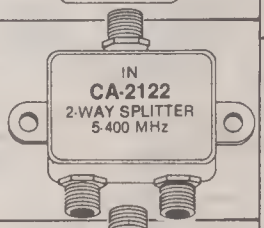
OUR PRICE **$1.50** each 10 FOR **$10.00**



SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 3.5 dB.
- Isolation Port to Port (min.): 30 dB.
- Power Pass: No.
- Return Loss (match): 20 dB.
- Impedance (ohms): 75.
- Number of Outputs: 2.

BP CATV SPLITTER
MODEL CA-2122

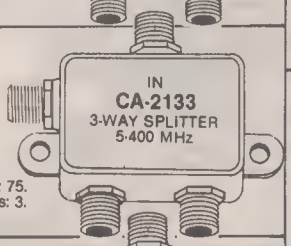
OUR PRICE **$1.95** each 10 FOR **$15.00**



SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 3.5 dB.
- Isolation Port to Port (min.): 30 dB.
- Return Loss (match): 20 dB.
- Impedance (ohms): 75.
- Number of Outputs: 2.
- Power Pass: No.

BP CATV SPLITTER
MODEL CA-2133

OUR PRICE **$2.25** each 10 FOR **$18.00**



SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 1 Port 3.5 dB; 2 Port 7.0 dB.
- Isolation Port to Port (min.): 25 dB.
- Return Loss (match): 20 dB.
- Impedance (ohms): 75.
- Number of Outputs: 3.
- Power Pass: No.

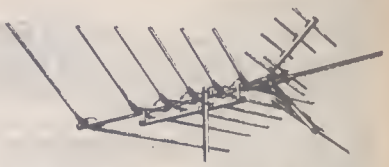
BP CATV SPLITTER
MODEL CA-2144

OUR PRICE **$2.95** each 10 FOR **$25.00**

SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 7.0 dB.
- Isolation Port to Port (min.): 25 dB.
- Return Loss (match): 20 dB.
- Impedance (ohms): 75.
- Number of Outputs: 4.
- Power Pass: No.

JERROLD ALL CHANNEL (VHF-TV, FM, UFH-TV) 300-OHM

FEATURES
- High gain.
- Excellent color and black and white performance.
- Rugged construction.
- Easy to install.



MODEL ZIP-15
For Surburban Areas

OUR PRICE **$29.95**

SPECIFICATIONS
- Range (Miles): VHF: 50, UHF: 30.
- Element Count: 15.
- Boom Length (inches): 77-1/2.
- Turning Radius (inches): 49.
- Downlead (type): Twinlead.
- Output (ohms): 300.
- U/V Splitter Provided.

MODEL ZIP-22
For Fringe OUR PRICE **$39.95**

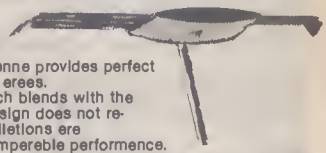
SPECIFICATIONS
- Range (Miles): VHF: 75, UHF: 45.
- Element Count: 22.
- Boom Length (inches): 119-1/2.
- Turning Radius (inches): 73.
- Downlead (type): Twinlead.
- Output (ohms): 300.
- U/V Splitter Provided.

MODEL ZIP-28
For Deep Fringe OUR PRICE **$55.00**

SPECIFICATIONS
- Range (Miles): VHF: 100, UHF: 60.
- Element Count: 28.
- Boom Length (inches): 130-1/4.
- Turning Radius (inches): 63.
- Downlead (type): Twinlead.
- Output (ohms): 300.
- U/V Splitter Provided.

WINEGARD HOME TV ANTENNA
MODEL SR-20A

OUR PRICE **$49.95**



Winegard's ultra compact Sensar 62-channel TV antenna provides perfect color and black and white reception in most viewing areas.
The Sensar antenna has elegant modern styling which blends with the decor of any home setting. Compact, unobtrusive design does not require elaborate mounting hardware, yet Sensar installations are stronger than that of conventional antennae with comparable performance.
Unique bi-directional characteristics of a Sensar antenna provides excellent reception in areas where stations are in different directions. Eliminates the need for an antenna rotor in most locations. Recommended for viewing areas up to 50 miles from transmitters . . . even farther depending on mounting height and signal strength. The SR-20A features built-in solid state modular amplifier, plus power-supply and band seperator. Requires 117VAC power.

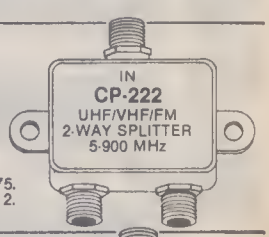
BP CATV SPLITTER
MODEL CA-2188

OUR PRICE **$4.95** each 5 FOR **$20.00**

SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 10.5 dB.
- Isolation Port to Port (min.): 25 dB.
- Return Loss (match): 20 dB.
- Impedance (ohms): 75.
- Number of Outputs: 8.
- Power Pass: No.

BP MATV SPLITTER
MODEL CP-222

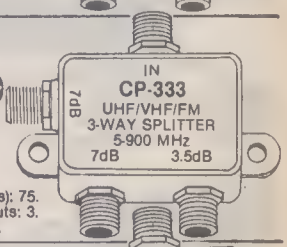
OUR PRICE **$1.95** each 10 FOR **$15.00**



SPECIFICATIONS
- Bandwidth: 5-900 mHz.
- Splitter Loss (max.): 3.5 dB.
- Isolation Port to Port (min.): VH—25 dB; UHF-20 dB.
- Return Loss (match): VHF-20 dB; UHF-15 dB.
- Impedance (ohms): 75.
- Number of Outputs: 2.
- Power Pass: Yes.

BP MATV SPLITTER
MODEL CP-333

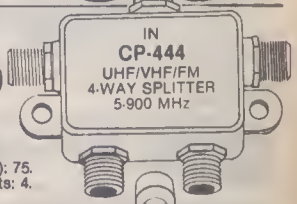
OUR PRICE **$2.25** each 10 FOR **$18.00**



SPECIFICATIONS
- Bandwidth: 5-900 mHz.
- Splitter Loss (max.): 1 Port 3.5 dB; 2 Port 7.0 dB.
- Isolation Port to Port (min.): VHF-25 dB; UHF-20 dB.
- Return Loss (match): VHF-20 dB; UHF—15 dB.
- Impedance (ohms): 75.
- Number of Outputs: 3.
- Power Pass: Yes.

BP MATV SPLITTER
MODEL CP-444

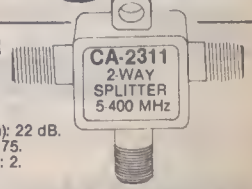
OUR PRICE **$2.95** each 10 FOR **$25.00**



SPECIFICATIONS
- Bandwidth: 5-900 mHz.
- Splitter Loss (max.): 7.0 dB.
- Isolation Port to Port (min.): VHF-25 dB; UHF-20 dB.
- Return Loss (match): VHF-20 dB; UHF-15 dB.
- Impedance (ohms): 75.
- Number of Outputs: 4.
- Power Pass: Yes.

CP CATV DIE-CAST HYBRID SPLITTER
MODEL CA-2311

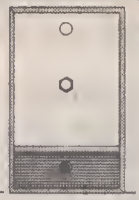
OUR PRICE **$1.50** each 10 FOR **$10.00**



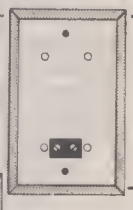
SPECIFICATIONS
- Bandwidth: 5-400 mHz.
- Splitter Loss (max.): 3.5 dB.
- Isolation Port to Port (min.): 30 dB.
- Return Loss (match): 22 dB.
- Impedance (ohms): 75.
- Number of Outputs: 2.
- Power Pass: No.

ANTENNA ACCESSORIES

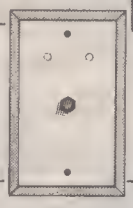
BP COAXIAL CABLE OUTLET
With F81C
MODEL MA-1010
OUR PRICE 79¢ each 10 FOR $6.90
Flush-mounted feed through, 75 ohm cable output, 75 ohm input receptacle. Constant impedance. Incorporates crimp-on ferrule connection for lead-in. F59A female connection both ends. With use of F81C connector.



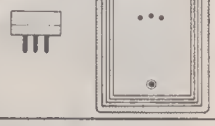
BP MATCHING TRANSFORMER
MODEL MA-1020
OUR PRICE $1.95 each 10 FOR $17.50
Flush-mounted VHF/UHF/FM tap-off. Single 300 ohm output with no strip piercing screws from 75 ohm thru line. Dual isolation 12/17 dB or 17/23 dB, lower isolation as supplied. Clip (2) wires for higher isolation. Supplied with mounting screws.



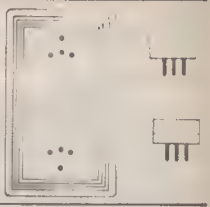
BP MATCHING TRANSFORMER
MODEL MA-1030
OUR PRICE $1.95 each 10 FOR $17.50
Flush-mounted VHF/UHF/FM tap-off. Single 75 ohm output from 75 ohm thru line. Dual isolations 12/17 dB or 17/23 dB. Lower isolation as supplied. Clip (1) wire for higher isolation. Supplied with mounting screws.



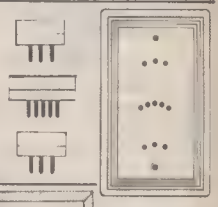
BP TV/FM WALLPLATE AND PLUG
MODEL MA-1040
OUR PRICE 99¢ each 5 FOR $4.50
Single output, matches standard 300 ohm twin lead. Fits standard outlet box or can be mounted with brackets supplied. Individually packed with hardware and instructions. Ivory color.



BP TWIN OUTPUT WALLPLATE
MODEL MA-1050
OUR PRICE $1.25 each 5 FOR $5.00
Complete with two polarized plugs for 300 ohm twin lead. Fits standard outlet box, or can be wall-mounted with brackets supplied. Hardware and instructions included. Ivory color.

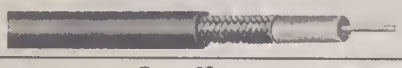
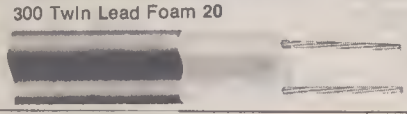
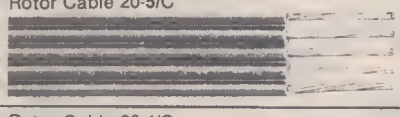
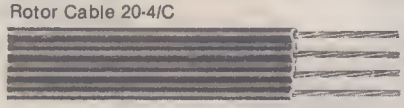
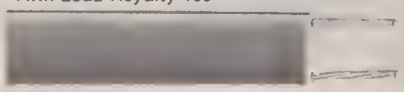


BP ANTENNA ROTATOR & TWIN LEAD OUTLET
MODEL MA-1060
OUR PRICE $1. each 5 FOR $6.00
Has outlet for 5-wire rotator leads plus two twin lead TV/FM outputs. Complete with 5-prong plug, two 3-prong plugs and all mounting hardware. Fits standard outlet box, or can be wall-mounted with brackets supplied.



BP VHF/UHF MATCHING TRANSFORMER
MODEL MA-1070
OUR PRICE $1.95 each 10 FOR $17.50
Flush-mounted VHF/UHF/FM matching. Excellent match. AC/DC blocking. Use no strip piercing screws. Mounting screws included.

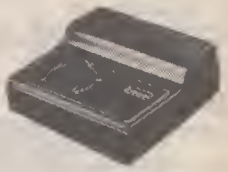
BP 75 OHM COAX FEED THRU PLATE
MODEL MA-1080
OUR PRICE 30 ¢ each 10 FOR $2.50
Flush-mounted feed-thru wall plate. Ivory color.

Model	Cable and Wire	Description	Standard Pkg.	Our Price
RG59U	Coax cable 59U 	Solid, 22 gauge copperweld	500 ft. spool	$35.00
CF500 CF100 CF50	300 Twin Lead Foam 20 	7 strand, 20 gauge bare copper	500 ft. spool 100 ft. poly bag 50 ft. poly bag	$26.95 6.95 3.95
520 7/500 520 7/100 520 7/50	Rotor Cable 20-5/C 	7 strand, 20 gauge bare copper, one outside conductor identified for polarity	500 ft. spool 100 ft. poly bag 50 ft. poly bag	$39.95 9.95 5.95
420 7/500 420 7/100 420 7/50	Rotor Cable 20-4/C 	7 strand, 20 gauge bare copper, one outside conductor identified for polarity	500 ft. spool 100 ft. poly bag 50 ft. poly bag	$34.95 8.95 4.95
2055/M 2055/100 2055/50	Twin Lead Royalty 100 	20 strand, 21 gauge bare copper	1000 ft. spool 100 ft. poly bag 50 ft. poly bag	$37.95 6.95 3.95
1036/M 1036/100 1036/50	Speaker Wire JSW-24	7 strand, 24 gauge bare copper, one conductor identified for polarity	1000 ft. spool 100 ft. spool 50 ft. spool	$20.00 2.95 1.75
18/SW1000 18/SW100 18/SW50	Speaker Wire JSW-18	16 strand, 18 gauge bare copper, one conductor identified for polarity	1000 ft. spool 100 ft. spool 50 ft. spool	$39.95 7.95 4.95
JPA-222/500 JPA-222/100 JPA-222/50	Microphone Cable	16 strand T.C. 22 AWG 2 conductor, T.C. braid .025 PVC. For use with low impedance microphones. Suggested working voltage is 1000 V.	500 ft. spool 100 ft. hank 50 ft. hank	$119.95 29.95 17.95
JPA-125/500 JPA-125/100 JPA-125/50	Microphone Cable	7 strand T.C. 25 AWG 1 conductor, T.C. braid .037 PVC. For use with low impedance microphones. Suggested working voltage is 1000 V.	500 ft. spool 100 ft. hank 50 ft. hank	$59.95 14.95 9.95

CHANNEL MASTER
AUTOMATIC COLOROTOR
MODEL 9510
OUR PRICE $49.95

DESCRIPTION
Channel Master Automatic Colorotors fine tune the color back in, and even let you pick up out of town channels, by aiming the antenna to hit TV signals head on! There's an antenna mounted drive unit and a control box inside by your set. When the color's out of tune, just turn the dial and fine tune your antenna to perfect color every time!

GEMINI STRATO
ANTENNA ROTOR
MODEL SX-500
OUR PRICE $59.95



FEATURES
- Automatic. No realignment or resynchronization ever required.
- Fast, simple installation.
- Rugged construction for longer life.
- Easy to operate.
- Accurate to within one degree.
- More stations available.
- Sharper pictures—better color.
- Reduces interference.
- Stays on target in 70 MPH winds.

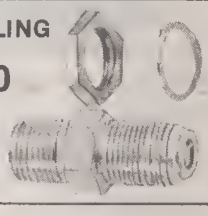
FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

BP PLUG
MODEL SP-275
OUR PRICE 10 FOR **$3.00** 100 FOR **$25.00**
DESCRIPTION
Standard Motorola type plug use for auto antenna and master TV antenna systems.

BP MALE CABLE CONNECTOR
MODEL SP-276 (F 59)
OUR PRICE 10 FOR **$2.00** 100 FOR **$15.00**
For use with RG-59/U type cable. Mates with F-61A, F-81B, A-61. 75 ohm use. Use crimping tool CR-596 or CR-595A. 1051 ferrule supplied.

BP MALE CABLE CONNECTOR
MODEL SP-277 (F 59A)
OUR PRICE 10 FOR **$2.00** 100 FOR **$15.00**
Similar to type F-59 except unit has a built-on ferrule.

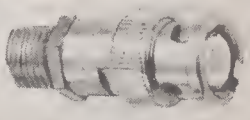
BP UNIVERSAL FEMALE "F" TO "F" COUPLING
MODEL SP-278 (F 81C)
OUR PRICE 10 FOR **$4.90** 100 FOR **$39.00**
Universal center clutch will adapt to all sizes of cable, RG-59 through RG-11. Accepts F-56 or F-56A, F-59 or F-59A, SF-59 or SF-56.



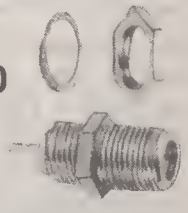
BP UNIVERSAL MALE "F" TO "F" COUPLING
MODEL SP-279 (F 71B)
OUR PRICE **$1.50** each
10 FOR **$12.00**
Mates with F-61A or F-81C. Single pack.

BP MALE CABLE CONNECTOR
MODEL SP-280 (F 56A)
OUR PRICE 10 FOR **$2.50** 100 FOR **$20.00**
Similar to type F-56 except unit has a built-on ferrule. Built-on CAC size ferrule.

BP ADAPTOR
MODEL SP-281 (BNC-F)
OUR PRICE **$3.50** each 10 FOR **$25.00**
For use where units such as test equipment must be connected to "F" fittings. Single pack.

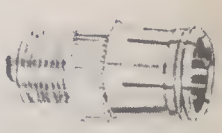


BP UNIVERSAL "F" CHASSIS CONNECTOR
MODEL SP-282 (F-61A)
OUR PRICE 10 FOR **$3.50** 100 FOR **$28.00**
Accepts F-59, F-59A, F-56, F-56A, F-659, SF-56, SF-59, TR-75F and AF-101. Mounts in 3/8" diameter chassis hole. Uses clutch type collet. 75 ohm.



BP ALL CHANNEL TERMINATOR
MODEL SP-283 (TR 75F)
OUR PRICE 10 FOR **$2.50** 100 FOR **$22.00**
This precision 75 ohm terminator for F-61A or F-81 connectors should be used for VHF, UHF and all channel systems.
Frequency range: 54 to 218 and 470 to 890 mHz. Maximum VSWR: 1.06:1 (30 dB minimum return loss) for VHF range. 1.2:1 (25 dB minimum return loss) for UHF range.

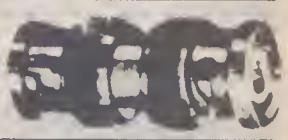
BP CONNECTOR PLUG
MODEL SP-284
OUR PRICE **$1.25** each 10 FOR **$10.00**
Push on F connector plug to F jack.



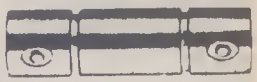
BP CABLE CONNECTOR
MODEL SP-285 (F 59-AH)
OUR PRICE 10 FOR **$2.50** 100 FOR **$22.00**
Similar to F 59 connector.

BP BNC MALE CONNECTOR
MODEL BC-2501
OUR PRICE **$1.95** each 10 FOR **$17.50**
• Blister package

BP DOUBLE MALE ADAPTOR
MODEL BC-2506
OUR PRICE **$3.25** each 10 FOR **$27.50**
• Blister package



BP DOUBLE FEMALE ADAPTOR
MODEL BC-2516
OUR PRICE **$2.95** each 10 FOR **$27.50**
• Blister package



BP BNC MALE TO UHF FEMALE ADAPTOR
MODEL BC-2520
OUR PRICE **$2.75** each 10 FOR **$25.00**
• Blister package

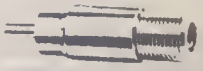
BP UHF MALE TO BNC FEMALE ADAPTOR
MODEL BC-2521
OUR PRICE **$2.25** each 10 FOR **$20.00**
• Blister package

BP T-CONNECTOR 2 FEMALE BNC 1 MALE BNC
MODEL BC-2522
OUR PRICE **$3.50** each 10 FOR **$25.00**
• Blister package

BP BNC PLUG TO BNC FEMALE RIGHT ANGLE ADAPTOR
MODEL BC-2523
OUR PRICE **$3.75** each 10 FOR **$32.50**
• Blister package

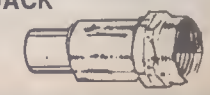
BP BNC TO F CONNECTOR
MODEL BC-2525
OUR PRICE **$3.50** each 10 FOR **$25.00**
• Blister package

BP RCA PLUG TO "F" JACK
MODEL BC-2727
OUR PRICE **$2.95** each 10 FOR **$25.00**



BP BNC PLUG TO RCA JACK
MODEL BNC-2529
OUR PRICE **$2.50** each 10 FOR **$20.00**

BP VIDEO ADAPTOR "F" PLUG TO RCA JACK
MODEL BC-2732
OUR PRICE **$2.95** each 10 FOR **$25.00**
• Blister package.



SPLITTERS AND MATCHING TRANSFORMERS

BP VHF/UHF SEPARATOR
MODEL SP-702BL

OUR PRICE $1.50 each 10 FOR $12.50

Uses behind TV set to split the VHF/UHF signals to the TV set from a single 300 ohm down lead. Piercing washer terminals eliminate the need to strip wire ends.
- **Blister package.**

BP VHF/UHF/FM SEPARATOR
MODEL SP-703BL

OUR PRICE $1.75 each 10 FOR $15.00

Uses behind TV set to split the VHF/UHF/FM signals to the TV set or FM receiver from a single 300 ohm down lead. Piercing washer terminals eliminate the need to strip wire ends.
- **Blister package.**

BP VHF/UHF SEPARATOR-TRANSFORMER
MODEL SP-802BL

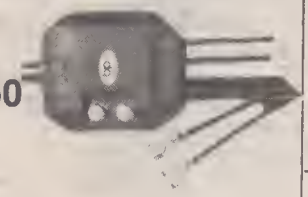
OUR PRICE $1.75 each 10 FOR $15.00

Used behind TV set to split the VHF/UHF signals to the set from a single 75 ohm coaxial cable input. One F-59 connector supplied.
- **Blister package.**

BP VHF/UHF/FM SEPARATOR-TRANSFORMER
MODEL SP-803BL

OUR PRICE $1.95 each 10 FOR $17.50

Used behind TV set to split the VHF/UHF/FM signals to the set or FM receiver from a single 75 ohm coaxial cable input. One F-59 connector supplied.
- **Blister package.**



BP VCR/TV SEPARATOR VHF/UHF/FM SPLITTER & BALUN
MODEL SP-903

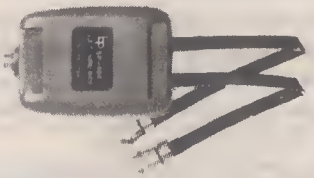
OUR PRICE $2.50 each 10 FOR $19.90

- 75 ohm input. W/F conn.
- 75 ohm and 300 ohm output.
- **Blister package.**

BP VCR/TV SIGNAL MIXER
MODEL SP-904

OUR PRICE $2.50 each
10 FOR $19.90

- 75 ohm input.
- 75 dual output.



BP VCR/TV SEPARATOR UHF/FM SPLITTER & BALUN
MODEL SP-905

OUR PRICE $1.95 each 10 FOR $17.50

- 300 ohm input.
- 300 ohm TV and FM output.
- 75 ohm output.

BP VCR/TV SIGNAL MIXER
MODEL SP-906

OUR PRICE $2.25 each 10 FOR $20.00

- 300 ohm input.
- Dual 75 ohm output.

BP VHF/UHF MATCHING TRANSFORMER
MODEL MT-1

OUR PRICE 75¢ each
10 FOR $5.00 100 FOR $39.00

DESCRIPTION
VHF/UHF 75-300 ohm matching unit. Miniature size completely shielded and balanced for reduction of direct pick-up. AC/DC blocking.

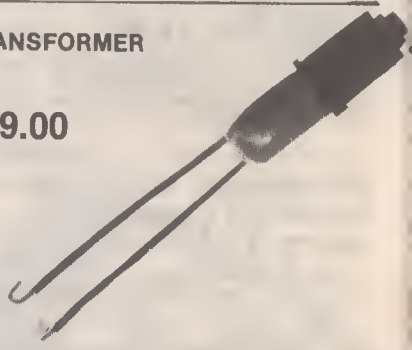
SPECIFICATIONS
- Frequency range: 5-900 mHz.
- Circuit: 3 capacitors on PC board.
- Response: ±0.25 dB.
- Insertion loss: 0.5 dB max.
- Return loss: 20 dB min.
- Balance ratio: 35 dB min.
- Case material: Aluminum
- Connector material: Machined brass.
- Terminal lugs: Crimped & soldered.

BP VHF/UHF MATCHING TRANSFORMER
MODEL MT-2

OUR PRICE $1.00 each
10 FOR $9.00 100 FOR $69.00

DESCRIPTION
Completely plastic molded construction for weather-proofing. Supplied with rubber boot.

SPECIFICATIONS
- Frequency range: 0-900 mHz.
- Circuit: 2 capacitors on PC board.
- Case material: Molded plastic.
- Connector material: Machined brass.
- Terminal lugs: Crimped & soldered.

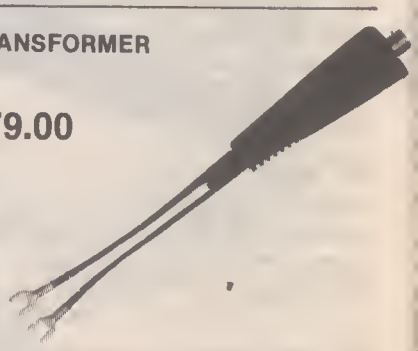


BP VHF/UHF MATCHING TRANSFORMER
MODEL MT-3 (outdoor)

OUR PRICE $1.19 each
10 FOR $9.90 100 FOR $79.00

DESCRIPTION
Completely plastic molded construction for weather-proofing.

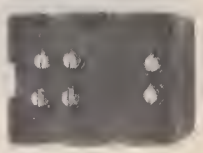
SPECIFICATIONS
- Frequency range: 0-900 mHz.
- Circuit: 2 capacitors on PC board.
- Case material: Molded plastic.
- Connector material: Machined brass.
- Terminal lugs: Crimped & soldered.



BP CP-2 TWO SET COUPLER
MODEL CP-202

OUR PRICE $1.75 each 10 FOR $12.50

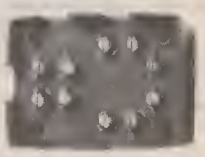
VHF/UHF/FM low loss two set coupler. 300 ohm input. Two 300 ohm outputs. Power passive, excellent match. Features no strip piercing screws. Supplied with mounting screws. Excellent for color, black and white TV & FM stereo.
- **Blister package.**



BP CP-4 FOUR SET COUPLER
MODEL CP-404

OUR PRICE $2.75 each 10 FOR $22.50

VHF/UHF/FM low loss four set coupler. 300 ohm input. Four 300 ohm outputs. Power passive, excellent match. Features no strip piercing screws. Supplied with mounting screws. Excellent for color, black and white TV & FM stereo.
- **Display package.**

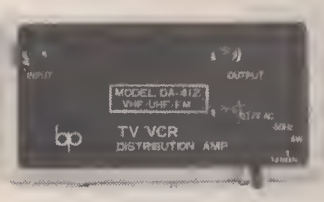


DISTRIBUTION AMPLIFIERS & ACCESSORIES

BP DISTRIBUTION AMPLIFIER UHF/VHF/FM
MODEL DA-412

OUR PRICE **$34.95** each

4 FOR **$120.00**



DESCRIPTION
UHF/VHF/FM broadband distribution amplifiar with high input capability. Feetures low noise, high overloed capacity, lightning protection, heavy guage metal case, on-off indicator light.

SPECIFICATIONS
Bsndwidth (MHz): 54 to 216, 470 to 890. **Gain (dB):** 12 (VHF) (2 outputs), 10 (UHF) (2 outputs). **Noisa Figure (dB):** 6 (VHF), 7.7 (UHF). **Input Cspability:** 40 dBmV (100 mV) for VHF, 20 dBmV (10mV) for UHF. **3 CH in LB, 4 CH in HB, 3 CH in UHF:** Present simultaneously with no perceptible distortion. **Input:** 75 ohm coaxial. **Output:** 75 ohm x 2 coaxial. **Temperature Renga:** −40° to +140°F. **Power Raquiramanta:** AC 117V, 80Hz. **Dimensions:** 6-5/8" x 3-3/32" x 1-7/16".

BP DISTRIBUTION AMPLIFIER VHF/UHF/FM With FM Trap
MODEL DA-425 OUR PRICE **$29.95** each 4 FOR **$100.00**

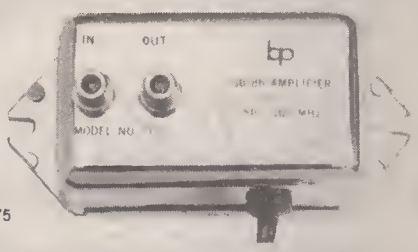
FEATURES
- Designed for TV/VCR multiple-set installations.
- Provides high gain to improve TV reception on VHF/UHF channels 2-83.
- Integrated circuit.
- Low noise.
- High overload cepecity.
- Extra lightning protection et RF input.
- Heavy gauge metal housing.
- On/off indicator light.
- Switchable FM trap.

SPECIFICATIONS
Bend Width: VHF 54-900 mHz, UHF 470-890 mHz. **Gsin (dB):** VHF 24 dB, UHF 22 dB. **Meximum Input (st 7 VHF chsnnats snd 4 UHF channeia) Simultaneous Oparation:** VHF 15 dBmV, UHF 17 dBmV. **Maximum Output (at 7 VHF chsnneia end 4 UHF chennels) Simulteneous Operetion. Croaa Modulatton at** −46 dB: VHF 40 dBmV per channel, UHF 40 dBmV per channel. **Noiss Figura:** VHF Low 5.4 dB, High 8.2 dB, UHF 14 dB. **FM Trap: Attanuation Rejection Band:** −20dB (switchable) 95-105 mHz. **Temperetura Renge:** −40°F to +140°F. **Input:** 75 ohm — 'F' type coaxial cable. **Output:** 75 ohm — 'F' type coaxial cable. **Power Requirement:** AC 117 V. 60 Hz. **Housing Dimensions:** 3-3/32" x 6-5/8" x 1-7/16". **Length of Power Cord:** 6 ft.

BP VHF/FM AMPLIFIER
MODEL 7002

OUR PRICE **$9.95** each

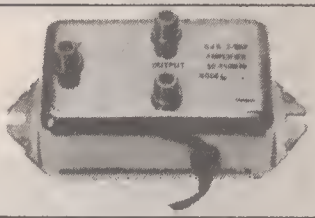
5 FOR **$45.00**



SPECIFICATIONS
- All solid state signal emplifier boosts weak signals.
- Signal gain: 10 dB.
- Bandwidth: 50-300 mHz.
- Volts: 110-120V AC. • Impedance: 75 ohm.
- Outputs: One. • **Displey package.**

BP VHF/FM AMPLIFIER
MODEL 7003

OUR PRICE **$12.95**



FEATURES
- All solid state signal amplifier boosts signals.
- Signal Gain: 8 dB. • Bandwidth: 50-400 MHz.
- Volts: 110-120 VAC. • Impedance: 750 HM.
- Outputs: Two. • Display Pkg.

BP VHF/FM AMPLIFIER
MODEL 7004

OUR PRICE **$12.95** ssch

5 FOR **$60.00**

SPECIFICATIONS
- All solid state signal amplifier for up to 4 sets.
- Signal gain: 3 dB 50-300 mHz.
- Impedance: 75 ohm.
- Outputs: Four.
- Display package.

BP GROUNDING BLOCK
MODEL GB-1

OUR PRICE **49¢** ssch

10 FOR **$3.90**

SPECIAL!
BP SUPER COLOR TV BOOSTER
MODEL V-7300

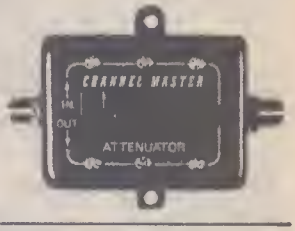
OUR PRICE **$24.95**

FEATURES
- High Gain.
- Low Noise.
- High Power.
- Full Lighting Protection.
- Environmental Stability.
- Easy To Mount.

SPECIFICATIONS
Bend Width: 40-860 MHz. **Gein:** V:26 dB U:22 dB. **Mex. Output Level:** 105 dBuV. **Input Impedence:** 75/300 ohms. **Output Impedenca:** 75/300 ohms. **Noiss Figure:** 4 dB/below AT500 MHz. **Applicable Temp.:** -20°C — +50°C. **Dimensions:** 143 x 82 x 68mm 330g.

CHANNEL MASTER
UHF/VHF/FM RF ATTENUATORS
MODEL 7270

OUR PRICE **$6.95** SPECIAL!



DESCRIPTION
These highly stable, in-line, fixed and variable attenuators can be used anywhere needed, for adjusting or equalizing signal levels. Model 7270 is a variable unit providing 0 to 21 dB attenuation in convenient 3 dB steps.

CHANNEL MASTER BAND REJECTION FILTERS

MODEL 7203	MODEL 7204	MODEL 7205
OUR PRICE **$9.95**	OUR PRICE **$9.95**	OUR PRICE **$9.95**
Sub-Band Filter	FM Band Filter	Mid-Bend Filter

DESCRIPTION
The Channel Master models 7203, 7204 end 7205 ere 75 ohm Band Rejection Filters with typical attenuation of 15-35 dB. They ere designed to attenuate signeis in the sub, FM and Mid band frequencies while pessing signals in the VHF/UHF TV band with minimum loss. These traps are designed for indoor surface mounting. Putting two traps in the same line for very strong interfering signals will provide attenuation of 25 to 50 dB.

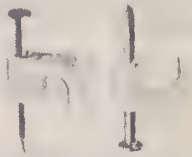
BP GHOST ELIMINATOR 75-OHM VARIABLE ATTENUATOR
MODEL V-460 OUR PRICE **$6.95** SPECIAL!

FEATURES
- Illimates Ghosts in TV reception.
- Reduce interference in TV reception from a weaker TV station on the same frequency or multipath interference from a single station.
- The attenuator allows you to fine-tune each station for the best signel strength.
- Install this model at the 75-ohm terminal on back of TV, using e coaxial cable with "F" connectors. (Not included).
  If your TV has only a 300 ohm screw terminal, use a 300 to 75 ohm transformer. (Not included).

BP CABLE CLAMPS
MODEL V-425

OUR PRICE **$1.50** per pkg.

For 75 ohm coax cable.



DESCRIPTION
For securing cable to wood, cement, plaster, brick, almost any surface. Tough, non-corrosive plastic. Complete with corrosion resistant hardened steel nails. Pkg. of 25.

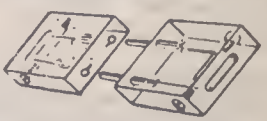
BP ANTENNA CLOTHES PIN
MODEL CP-1

OUR PRICE 20 FOR **$5.00**

100 FOR **$20.00**

BP TWIN LEAD CONNECTORS
MODEL V-265

OUR PRICE 2 FOR **$1.00**



DESCRIPTION
Bulk packaged. Clear polystyrene twin lead connectors make joining 300 ohm twin leed e snap.

CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

DISTRIBUTION AMPLIFIERS

BLONDER-TONGUE STARFIRE SERIES

MODEL DA-475 U/V
OUR PRICE **$52.50**
Four Outputs

MODEL DA-475 V
OUR PRICE **$39.95**
Four Outputs

MODEL DA-4300 U/V
OUR PRICE **$49.95**
Single Output

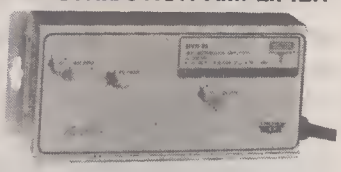
MODEL DA-4300 V
OUR PRICE **$39.95**
Single Output

FEATURES
- High input capability combinad with low noise.
- Models available for all applications (VHF/FM, UHF/VHF/FM—75 ohm and 300 ohm).
- Patented ICEF circuit for extra wida VHF dynamic range.
- Amplifies four TV's/FM sets.

Modal	Description	Input Capability (dBmV)	Noisa Figura (dB)	Gain (dB)	Input Ohms	Output Ohms
DA-475 u/v	For 75 ohm coax cable. All channals VHF/UHF thru CH 8 & FM	35(VHF) 30(UHF)	4.6(VHF) 4.5(UHF)	7(VHF) 10(UHF)	75	75
DA-4300 u/v	All VHF/UHF (14-63) channeis plus FM 300 ohm twinlead input & outputs	35(VHF) 28(UHF)	5.5(VHF) 5.7(UHF)	8(VHF) 9(UHF)	300	300
DA-475v	CH 2-13 & FM amp. with 75 ohm coax cable input and outputs	35(VHF)	4.6(VHF)	8(VHF)	75	75
DA-4300v	300 ohm input & outputs. Amps VHF (2-13) & FM	37(VHF)	5.6(VHF)	5(VHF)	300	300

BLONDER-TONGUE UHF/VHF DISTRIBUTION AMPLIFIER

MODEL MUVB-15
OUR PRICE **$49.95**

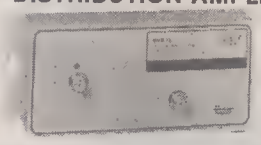


SPECIFICATIONS
- Output Capability (dBmV): VHF = 50; UHF = 47.
- Gain: VHF = 15 dB; UHF = 18 dB.

DESCRIPTION
Our leaet expeneive Mastarline® UHF/VHF amplifier. Excellant for small homa all-channei distribution eystems. Full CH. 2-83 operation Including CATV midband for premimum channais. Adjuetabla bulit-in FM trap to attenuate etrong local FM stations. A low-cost professionai soiution to rasidential TV systams for tachnicaily discriminating home ownere.

BLONDER-TONGUE VHF DISTRIBUTION AMPLIFIER

MODEL MVB-15
OUR PRICE **$39.95**

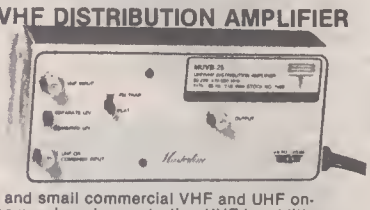


SPECIFICATIONS
- Output Capability (dBmV): VHF = 50.
- Gain: VHF = 15 dB.

DESCRIPTION
Our laast expensive Maeterlina® VHF-oniy amplifier. Idaal for emall home TV distribution systame or for that littie bit of axtra powar to solve and-of-the-line MATV eituatione. Fuii CH. 2-13 oparation Including CATV midband for premimum channais. Adjustabla built-in FM trap to attenuata atrong local FM stations and minimiza TV Intarfarance. A low-cost professional soiution to residential TV systama for technically diecriminating home owners.

BLONDER-TONGUE UHF/VHF DISTRIBUTION AMPLIFIER

MODEL MUVB-25
OUR PRICE **$59.95**
SPECIAL!

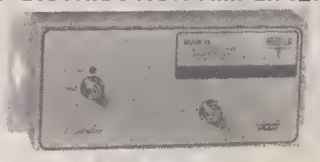


SPECIFICATIONS
- Output Capability (dBmV): VHF = 50; UHF = 48.
- Gain: VHF = 27 dB; UHF = 29 dB.

DESCRIPTION
A profeseional quality amplifiar for larga homes and small commercial VHF and UHF on-channel MATV aysteme. Excellent for TV showrooms when demonatrating UHF in addition to VHF channai performance. Providas iow-cost CATV midband amplification for premimum channel dietribution. Full UHF range to 890 mHz—Idaal for translator raception. Switchable FM band etop filtar eilminataa TV interferance from strong local FM stations.

BLONDER-TONGUE VHF DISTRIBUTION AMPLIFIER

MODEL MVB-25
OUR PRICE **$49.95**



SPECIFICATIONS
- Output Capability (dBmV): VHF = 50.
- Gain: VHF = 27 dB.

DESCRIPTION
A professional quality amplifier for large homas and small commercial MATV eysteme. Provides a largar end-of-tha-iina kick than the MVB-15. Excellent for TV ehowrooms in VHF-oniy areas. Providea low-cost CATV midband amplification for premium channai distribution. Switchabia FM band stop filtar ailminates TV Interfarance from etrong local FM stations.

FINCO
TUBE TYPE AMPLIFIER

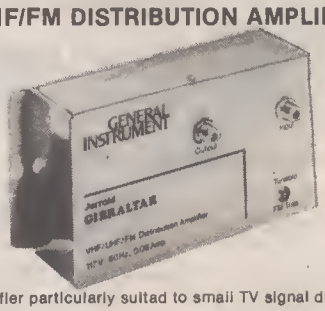
MODEL 65-1
OUR PRICE **$39.95**

NEW!

DESCRIPTION
Tube type VHF-FM distribution ampilfiar, single 300 ohm input, four 300 ohm outputa, Gain 8 dB to aach outlet.

JERROLD GIBRALTAR VHF/FM DISTRIBUTION AMPLIFIER

MODEL 3420
OUR PRICE **$46.95**



FEATURES
- High output capability.
- Low noise figure.
- Accepts a single, combined input.
- Diode lightning protaction.
- Tunabla FM trap.

SPECIFICATIONS
- Frequency Range (mHz): 54-108, 174-218.
- Gain (dB): VHF: 15.5.
- Gain Control Range (dB): N/A.

DESCRIPTION
Model 3420 Is a high gain, broadband amplifier particularly suitad to small TV signal distribution systams.

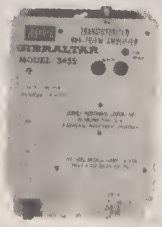
GIBRALTAR VHF/UHF/FM DISTRIBUTION AMPLIFIER

MODEL 4320 OUR PRICE **$64.95**

DESCRIPTION
Same as tha 3420 except:
- Frequency Ranga (mHz): 54-216, 470-890.
- Gain (dB): VHF: 15.5, UHF: 18.
- Gain Control Ranga (dB): N/A.

JERROLD GIBRALTAR VHF/FM AMPLIFIER

MODEL 3455 OUR PRICE **$89.95**



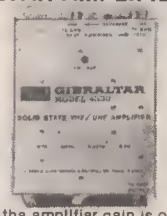
FEATURES
- Solid stata, low noise.
- High output capability (45 dBmV).
- Dioda lightning protection.
- Tunable FM trap.

SPECIFICATIONS
- Fraquency Range (mHz): 54-108, 174-218.
- Gain (dB): 30.
- Gain Control Range (dB): Lo: 10, HI: 10

DESCRIPTION
Jarrold's 3455 Gibraltar Is a high gain (30 dB) broadcast amplifier for medium-sized distribution systems. Provides 45 dBmV undistortad output for each of 7 channeis. Accepts combined HI Band and Lo Band VHF inputs and Includes separate 10 bD gain controls for tha HI and Lo Bands. 75-ohm F-659 connectors suppliad for input and output.

JERROLD ALL-CHANNEL GIBRALTAR AMPLIFIER

MODEL 4330
OUR PRICE **$99.95**

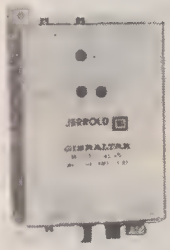


SPECIFICATIONS
- Fraquency Range (mHz): 54-216, 470-890.
- Gain (dB): VHF: 22, UHF: 26
- Gain Control Range (dB): N/A.

DESCRIPTION
Modal 4330 providas amplification of VHF-TV, FM and UHF-TV signals (color and black and white) for madium-sizad MATV systams. Sinca tha transistors usad are of uniqua striplna construction with low inductanca radial leads, tha amplifiar gain is optimum over the entira UHF band. Switch-salactad input allows aithar a single all-channei input, or separate VHF and UHF inputs. Duo-diode lightning protaction and tunable FM trap are additional saliant features. Self-containad powar supply permits diract oparation from 117 V, 60 Hz.

JERROLD ALL-CHANNEL GIBRALTER AMPLIFIER

MODEL 4545
OUR PRICE **$169.95**



FEATURES
- High gain (36 dB UHF, 33 dB VHF).
- Saparate 10 dB VHF and UHF gain controls.
- High output capability.
- Tunabla FM trap.
- Diode lightning protaction.

SPECIFICATIONS
- Fraquency Ranga (mHz): 54-218, 470-806.
- Gain (dB): VHF: 33, UHF: 38.
- Gain Controi Ranga (dB): 10, continuous. Separata VHF and UHF.

DESCRIPTION
The naw Jarrold Modei 4545 is an all-channai ampilfier for Master Antenna Systems where UHF signais are to ba distributad on channai. This compact ampilfiar featuras high output capability of 42 dBmV aach channel for 7 channels on VHF and 45 dBmV for 5 channals on UHF. Separate VHF and UHF band controle provida 10 dB of smooth adjustmant to the amplifier gain. Built-in Gibraltar featuras Includa lightning protection and fiald tunable FM trap.

JERROLD COLORCASTER PLUS

Home And Small Systems Amplifiers

MODEL TA-246X

OUR PRICE **$39.95**

MODEL TA-84X

OUR PRICE **$44.95**

MODEL TAC-84X

OUR PRICE **$49.95**

FEATURES

- High gain.
- Solid state.
- Lightning protected.
- FM band filter.
- 300 and 75 ohm models.

DESCRIPTION

Jerrold 'Colorcaster Plus' systems amplifiers provide linear amplification of television signals giving vivid color and sharp crisp black and white TV. Each amplifier exhibits higher input and output capability, lower noise figures, high gain and lightning protection. Also, featured in these amplifiers are FM band filters which reduce the entire FM band by 12 dB. This FM reduction plus the X-tra output capability eliminates the possibility of FM overload, even in the strongest FM area. Lightning protection circuitry is designed into the units to protect the amplifiers from static build-up or lightning.

TAC-84X SPECIFICATIONS

Band: 82 Channel. **Frequency Range (mHz):** 54-216, 470-890. **Number of Outputs:** 4. **Input and Output Impad (ohms):** 75. **Gain (dB): 4 outputs for 4 sets:** VHF 7.5 Lo, 6.5 Hi, FM—4.5, UHF—4.5. **Output Capability: Xm at 46 dB VHF (7 CH):** 38 dBmV. **UHF (5 CH):** 26.5 dBmV. **Noisa Figure VHF:** 4.5. **(dB) Maximum UHF:** 9. **Isolation Between Outputs:** 15 dB. **Dimansions & Shipping Wt.:** 6" x 2-1/4" (10.16cm x 15.24cm x 5.71cm). S.W. 1 lb. 6 oz.

TA-246X SPECIFICATIONS

Band: VHF. **Frequency Ranga (mHz):** 54-216. **Numbar of Outputs:** 4. **Input and Output Imped (ohms):** 300. **Gain (dB): 4 outputs for 4 sets:** VHF 7.5 Lo, 6.5 Hi, FM—4.5, N.A. **Output Capability: Xm at 46 dB VHF (7 CH):** 38 dBmV. **UHF (5 CH):** N.A. **Noise Figure VHF:** 4.5. **(dB) Maximum UHF:** N.A. **Isolation Batwean Outputs:** 15 dB. **Dimensions & Shipping Wt.:** 6" x 2-1/4" (10.16cm x 15.24cm x 5.71cm). S.W. 1 lb. 6 oz.

TA-84X SPECIFICATIONS

Band: 82 Channel. **Fraquancy Ranga (mHz):** 54-216, 470-890. **Number of Outputs:** 4. **Input and Output Imped (ohms):** 300. **Gain (dB): 4 outputs for 4 sets:** VHF 7.5 Lo, 5.5 HI. FM—4.5, UHF—3.5. **Output Capability: Xm at 46 dB VHF (7 CH):** 114,000 uV. **UHF (5 CH):** 27,000 uV. **Noise Figura VHF:** 5.5. **(dB) Maximum UHF:** 10. **Isolation Batween Outputs:** 15 dB. **Dimansions & Shipping Wt.:** 6" x 2-1/4" (10.16cm x 15.24cm x 5.71cm). S.W. 1 lb. 6 oz.

POWERMATE 5000 MAXIMIZER PREAMPLIFIER

Maximize Your TV Picture Color ... Your Signal Strength ... Your Reception Distance ... Your Antenna Performance

MODEL 5203

OUR PRICE **$42.95**

MODEL 5207

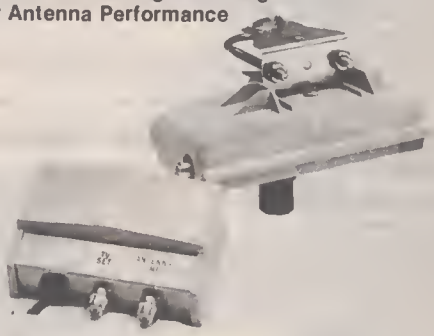
OUR PRICE **$44.95**

MODEL 5283

OUR PRICE **$47.95**

MODEL 5287

OUR PRICE **$52.95**



DESCRIPTION

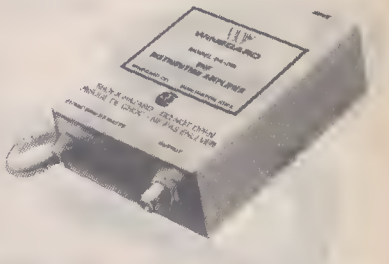
Preamplifier can help you get a stronger TV signal ... which will give you a clearer, sharper picture and vivid color.

		Impedance			Noise Figure (dB)		Gain (dB)		
Model	Frequency Band	Input	Downlead	Output	VHF Lo Hi	UHF	VHF Lo	VHF Hi	UHF
5203	VHF/FM	300	300	300(dual)	4.5 4.5	—	19	17	—
5207	VHF/FM	300	75	75	4.5 4.5	—	19	17	—
5283	VHF/UHF/FM	300	300	300(dual)	4.5 4.5	3.5 to 6.5	19	17	17 to 15
5287	VHF/UHF/FM	300	75	75	4.5 4.5	3.5 to 6.5	19	17	19 to 17

WINEGARD VHF AMPLIFIER (75 OHM)

MODEL DA-205

OUR PRICE **$33.95**



DESCRIPTION

For all channels 2-13 plus mid and super bands. High input levels make efficient use of strong signals in metropolitan areas and solve overload problems. UHF bypass.

SPECIFICATIONS

Output Per Channel* : VHF 47dBmV, UHF NA. **Gain:** VHF 16dB, UHF 3dB. **Input Per Channel *:** VHF 31dBmV, UHF NA. **Bandpass:** VHF 50 to 88 MHz†, 108 to 300 MHz. UHF 470-890 MHz. **Noise Figure:** VHF 2.9dB, UHF NA. **Input Connections:** 1—75 ohm. **Dimensions:** 5-1/2" Long x 3-1/2" Wide x 1-1/2" Deep.

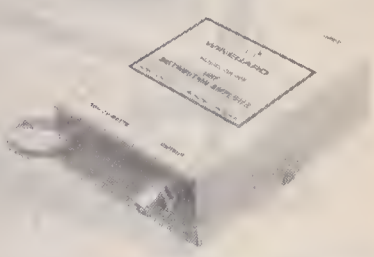
*7 Ch. VHF, 5 Ch. UHF 0.5% Cross Modulation

†All models which amplify VHF are equipped with a special FM circuit which prevents overload from strong local stations

WINEGARD UHF AMPLIFIER (75 OHM)

MODEL DA-405

OUR PRICE **$49.95**



DESCRIPTION

High gain, low noise distribution amplifier designed for use in deep fringe UHF signal areas. The very low noise figure of the DA-405 provides clear UHF pictures where other amplifiers would only make the snow brighter. Input and output are thru 75 ohm, F type connections. VHF signals are bypassed with negligible loss.

SPECIFICATIONS

Output Per Channel*: VHF NA, UHF 44dBmV. **Gain:** VHF 0.4dB avg., UHF 21.6dB avg. **Input Per Channel*:** VHF NA, UHF 23dBmV. **Bandpass:** VHF 54-216MHz, UHF 470-890MHz. **Noise Figura:** VHF NA, UHF 3.2dB. **Input Connactions:** 1-75 ohm. **Dimansions:** 5-1/2" Long x 3-1/2" Wide x 1-1/2" Deep.

*7 Ch. VHF, 5 Ch. UHF 0.5% Cross Modulation

WINEGARD VHF-UHF AMPLIFIER (75 OHM)

MODEL DA-8050

OUR PRICE **$39.95**

DESCRIPTION

Designed especially for strong signals areas. The DA-805 features straight forward design. Amplifies Mid and Super bands.

SPECIFICATIONS

Output Per Channel*: VHF 47dBmV, UHF 48dBmV. **Gain:** VHF 16dB, UHF 9dB. **Input Per Channel*:** VHF 31dBmV, UHF 39dBmV. **Bandpass:** VHF 54 to 88 MHZ†, 108 to 300MHz, UHF 410 to 810MHz. **Noise Figure:** VHF 2.8dB, UHF 8.5dB. **Dimensions:** 5-1/2" Long x 3-1/2" Wide x 1-1/2" Deep.

*7 Ch. VHF, 5 Ch. UHF 0.5% Cross Modulation

†All models which amplify VHF are equipped with a special FM circuit which prevents overload from strong local stations

WINEGARD VHF AMPLIFIER FOR CATV

MODEL DA-2155

OUR PRICE **$42.95**

DESCRIPTION

Special model to use with 30 channel CATV inputs. Extendad bandpass from 50 to 450MHz covers mid and super bands and FM band.

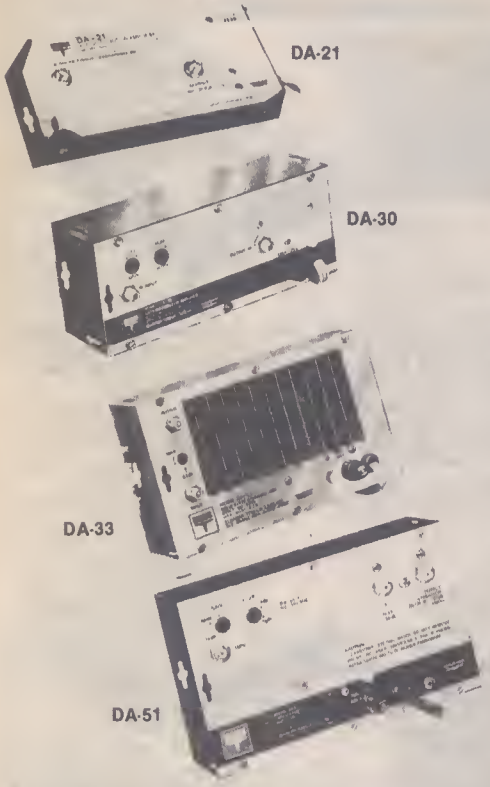
SPECIFICATIONS

Output Per Channel*: VHF 41dBmV**, UHF NA. **Gain:** VHF 11dB, UHF NA. **Input Per Channel*:** VHF 30dBmV**, UHF NA. **Bandpass:** VHF 50-300MHz. **Noisa Figure:** VHF 5.8dB, UHF NA. **Dimensions:** 5-1/2" Long x 3-1/2" Wide x 1-1/2" Deep.

*7 Ch. VHF, 5 Ch. UHF 0.5% Cross Modulation **30 Ch. VHF 0.5% Cross Modulation

TV ANTENNA AMPLIFIERS

CATV INDOOR DISTRUBUTION AMPLIFIERS



BLONDER-TONGUE CATV DISTRIBUTION AMPLIFIER

MODEL **DA-21**

OUR PRICE **$59.95**

FEATURES
- Ideal CATV distribution amplifier in small apartment buildings.

DESCRIPTION
The latest in CATV distribution amplifiers. 50-300 mHz response. Includes many features found only in higher priced units.

SPECIFICATIONS
Band Pass (MHz): 50-300. **Band Pass Flatness:** ±0.5 dB. **Gain (Typical) Adjustable From:** 23 dB fixed.

BLONDER-TONGUE WIDEBAND AMPLIFIER

MODEL **DA-33**

OUR PRICE **$399.95**

FEATURES
- Ultra-wide bandwidth 0.5 mHz-300 mHz.
- Push-pull hybrid IC amplifier.
- Exceptionally high output.

DESCRIPTION
The DA-33 features extremely wide bandwidthe; 0.5 mHz to 300 mHz, wide range continuous gain control and surge protected amplifier and power supply sections. It is ideal for increasing the output level of sweep generator or signal generator to test very lossey devices under test, such as long lengths of coaxial cables, coaxial relay isolation, etc. The DA-33 is also used as a preamplifier for CATV signal level meter (SLM) used to make FCC required signal leakage measurements. It may also be employed as a sub-channel return amplifier. In this case external multiplexers such as Blonder-Tongue MSVM are required to bypass VHF in the forward direction.

The DA-33 is also used aboard ship where its coverage of the short wave and communications bands is desired.

SPECIFICATIONS
Band Pass (MHz): .05-300 **Band Pass Flatness:** ±1.0 dB. **Gain (Typical) Adjustable From:** 18 dB to 36 dB.

BLONDER-TONGUE WIDEBAND DISTRIBUTION AMPLIFIER

MODEL **DA-30**

OUR PRICE **$139.95**

FEATURES
- Flat response—50-300 mHz.
- 40 dBmV output per channel for 21 channels.
- Front panel gain and slope controls.
- Slim line design—easy to install.

DESCRIPTION
Designed specifically for apartment building and other multi-set installations served by CATV. Features flat response from 50 to 300 mHz for distribution of VHF, MID and SUPER band channels. Good output capability and wide gain and slope control ranges make it easy to adapt to any system. Front panel gain and slope controls.

SPECIFICATIONS
Band Pass (MHz): 50-300. **Band Pass Flatness:** ±0.75 dB. **Gain (Typical) Adjustable From:** 17 dB to 32 dB.

BLONDER-TONGUE 2/3 WIDEBAND DISTRIBUTION AMPLIFIERS

MODEL **DA-51**

OUR PRICE **$369.95** (Specify Channel 2 or 3)

FEATURES
- Specifically designed for CATV "Drop" distribution systems.
- Wide frequency range for incorporating MID/SUPER bands with VHF/FM.

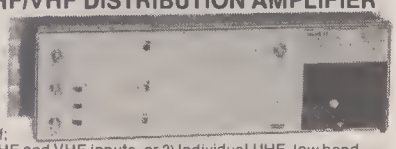
DESCRIPTION
Designed for TV signal distribution systems that use a CATV "Drop" as a signal source. 50 to 300 mHz bandpass. An excellent amplifier for apartment buildings fed from a CATV system. Wide frequency range allows the DA-51 to be used in systems incorporating MID and SUPER band channels with the standard VHF and FM channels. Push-pull hybrid IC output. Has high output capability of 56 dBmV on each of 12 channels. Two models of the DA-51 are available: DA-51-3 with a slope control covering 50-300 mHz, and DA-51-2 with a slope control operating between 50-220 mHz.

SPECIFICATIONS
Band Pass (MHz): 50-300 or 50-200. **Band Pass Flatness:** ±0.5 dB. **Gain (Typical) Adjustable From:** 28 dB to 43 dB.

BLONDER-TONGUE UHF/VHF DISTRIBUTION AMPLIFIER

MODEL **MUVB-45**

OUR PRICE **$349.95**



A channel expander amplifier; engineered for adding local origination UHF channels to buildings fed with a CATV drop.

Switchable antenna inputs permit selection of: 1) A combined UHF/VHF input. 2) Individual UHF and VHF inputs, or 3) Individual UHF, low band VHF, and high band VHF inputs. Has individual high band VHF, low band VHF, and UHF gain controls and a switchable FM band stop filter. Has full UHF range to 890 mHz and fits standard 19-inch rack.

SPECIFICATIONS
- Output Capability (dBmV): VHF and flat = 53.8, 6 dB block tilt = 56; UHF = 51.5.
- Gain (typ.) Adjust. from (dB): LB/FM = 28-46, HB = 27-45; UHF = 27-45.

VHF DISTRIBUTION AMPLIFIER

MODEL **MVB-45** OUR PRICE **$184.95**

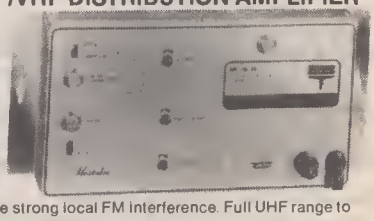
"The Workhorse" for medium to large size MATV systems.
The successor to the CVB-45A, the all-time broadband MATV industry wide best seller. Features switchable, combined or split inputs for use with either a single antenna (low band, FM, high band) or for separate low and high band antennas. Has individual high and low band gain controls and a switchable FM band stop filter. Fits standard 19-inch rack.

SPECIFICATIONS
- Output Capability (dBmV): VHF and flat = 54; 6 dB block tilt = 56.
- Gain (typ.) Adjust. from (dB): LB/FM = 28-46, HB = 18-46.

BLONDER-TONGUE UHF/VHF DISTRIBUTION AMPLIFIER

MODEL **MUVB-35**

OUR PRICE **$149.95**



DESCRIPTION
For apartment buildings, condominiums, cluster housing or other medium size MATV installations that are specified for UHF on-channel distribution in addition to regular VHF. Split band construction with individual high band VHF, low band VHF and UHF gain controls permit band balancing on longer cable runs. Switchable FM band stop filter to eliminate strong local FM interference. Full UHF range to 890 mHz—ideal translator reception.

SPECIFICATIONS
- Output Capability (dBmV): LB&HB = 49; UHF = 49.
- Gain (typ.) Adjust. from (dB): LB/FM = 23-35; HB = 22-34; UHF = 18.

BLONDER-TONGUE MUVF U/V MULTIPLEXER

MODEL **4548** OUR PRICE **$19.95**

FEATURES
- Mixes or separates VHF and UHF channels.
- VHF port passes DC and subchannels also
- Compact design.

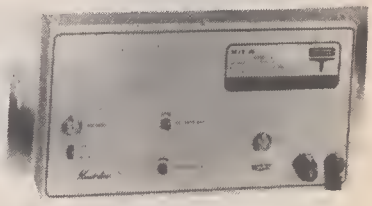
DESCRIPTION
Mixes signals from separate VHF and UHF antennas or seperates UHF and VHF channels on a common line for separate amplification.

SPECIFICATIONS
Isolation between UHF and VHF ports: UHF 36 dB; VHF 32 dB. **Bandpass:** VHF, DC to 216 mHz, UHF, 470 to 890 mHz. **Match:** VHF, 26 dB RL; UHF, 23 dB RL. **Impedance:** 75 ohm. VHF ports pass up to 1 amp or AC or DC current. **Connector:** Type-F (mating BTF-591 supplied). **Dimensions:** 2" x 2-3/4" x 1".

BLONDER-TONGUE VHF DISTRIBUTION AMPLIFIER

MODEL **MVB-35**

OUR PRICE **$84.95**



DESCRIPTION
For apartment buildings, condominiums, cluster housing or other medium size MATV installations. Split band construction with separate high and low band gain controls permits band balancing on longer cable runs. Switchable FM band stop filter to eliminate strong local FM interference.

SPECIFICATIONS
- Output Capability (dBmV): VHF and flat = 49; 6 dB block tilt = 51.5.
- Gain (typ.) Adjust. from (dB): VHF = 23-35.

BLONDER-TONGUE MLHF MULTIPLEXER

MODEL **4549** OUR PRICE **$19.95**

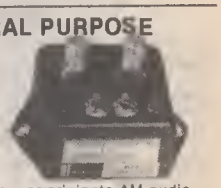
FEATURES
- Mixes or separates high and low band VHF channels.
- Low band port also passes DC subchannels.
- Compact design.

DESCRIPTION
Ideal for mixing signals from high and low band antennas or separating high and low band channels for separate amplification.

SPECIFICATIONS
Bandpass: Low band DC to 108 mHz, high band 174 to 300 mHz. **Isolation between bands:** 30 dB. **Thru Loss:** Low band 0.1 dB; high band 0.2 dB. **Match:** Low band, 26 dB RL; high band 23 dB typical. **Connectors:** Type-F (mating BTF-591 supplied). Low band port passes up to 1 amp of AC or DC power. **Impedance:** 75 ohms. **Dimensions:** 2" x 2-3/4" x 1-1/4".

BLONDER-TONGUE MDX-75F GENERAL PURPOSE MULTIPLEXER

MODEL **4659** OUR PRICE **$17.95**



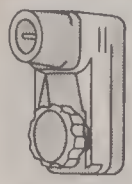
FEATURES
- Multi-purpose multiplexer.
- Mixes or separates DC to 10 mHz and 54-890 mHz signals.
- Passes 3 amps of AC or DC current.

DESCRIPTION
The MXD-75F may be used to power a headend in a remote location, or originate AM audio programming in a TV distribution system or to mix high quality video signals in a TV distribution system.

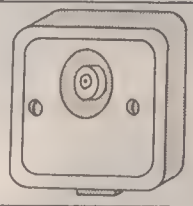
SPECIFICATIONS
Bandpass: DC to 10 mHz and 54-890 mHz. **Isolation:** At 50 mHz 42 dB. **Thru Loss:** 54-216 mHz and 470-890 mHz, 0.2 dB; 10 mHz, 0.75 dB. **Connections:** Two type-F, one 75-ohm dual-screw terminal (for video & power). Passes 3 amp, AC or DC. **Dimensions:** 1-7/18" x 2" x 2-3/4".

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

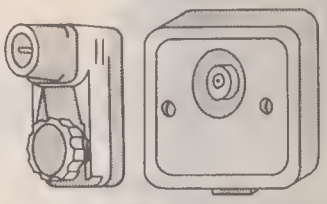
BP QUICK CONNECT "F" PLUG & BALUN
MODEL V-400
OUR PRICE $1.50 each 10 FOR $12.50
Adds mobility to your VCR & TV. Converts 300 ohm input to 75 ohm output. No wiring necessary. Peg pkgd.



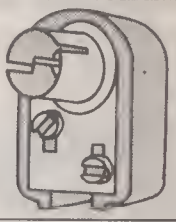
BP QUICK CONNECT "F" WALL JACK
MODEL V-401
OUR PRICE $1.75 each 10 FOR $15.00
Adds mobility to your VCR & TV. Mates directly with "F" antenna plugs.



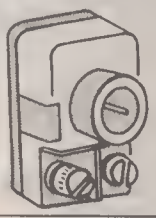
BP VCR-TV QUICK CONNECT "F" SET
MODEL V-402
OUR PRICE $2.75 each
10 FOR $25.00
Adds mobility to your VCR-TV. Push on/pull off antenna connectors allow instant switching for multi-purpose installations. Instructions included. Peg packaged.



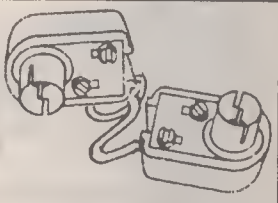
BP QUICK CONNECT "F" PLUG
MODEL V-403
OUR PRICE 75¢ each 10 FOR $6.00
Adds mobility to your VCR & TV. For 75 ohm cable. No wiring necessary. Instructions Included. Peg pkgd.



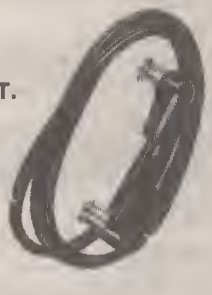
BP QUICK CONNECT "F" PLUG & BALUN
MODEL V-404
OUR PRICE $1.50 each 10 FOR $10.00
Adds mobility to your VCR & TV. Converts 300 ohm input to 75 ohm output. No wiring necessary. Peg pkgd.



BP QUICK CONNECT "F" PLUG RG 59U
MODEL V-4033
OUR PRICE $1.95 each 10 FOR $17.50
MODEL V-4036
OUR PRICE $2.50 each 10 FOR $22.50
3 ft. or 6 ft. Push-on Quick Connect "F" plug on both ends. Blister packaged.



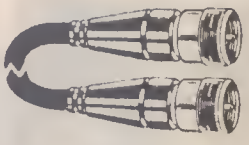
BP QUICK CONNECT RIGHT ANGLE PUSH ON CABLES
MODEL V-3533
OUR PRICE $2.75 each 10 FOR $25.00
3 ft. RG-59 cable with right angle Push-on "F" plug on both ends.
MODEL V-3534 with Gold Connectors
OUR PRICE $3.75 each 10 FOR $35.00 3 FT.
Same as above With Gold Connectors on Both Ends
MODEL V-3566
OUR PRICE $2.95 each 10 FOR $27.50
6 ft. RG-59 ceble with right angle Push-on "F" plug on both ends.
MODEL V-3567 with Gold Connectors
OUR PRICE $3.95 each 10 FOR $37.50
Same as above With Gold Connectors on Both Ends 6 FT.



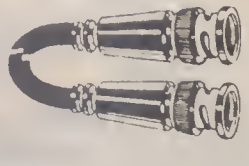
MODEL V-3588
OUR PRICE $3.50 each
10 FOR $30.00
12 ft. RG-59 cable with right angle Push-on "F" plug on both ends.

MODEL V-3589 with Gold Connectors
OUR PRICE $4.50 each
10 FOR $40.00 12 ft. RG-59 cable with right angle Push-on "F" plug Gold Connectors on Both Ends

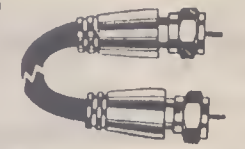
BP 75-OHM CABLE RG 59U
MODEL V-3303
OUR PRICE $2.95 each 10 FOR $27.50
3 ft., UHF plug to UHF plug. Blister package.
75-OHM CABLE
MODEL V-3310
OUR PRICE $3.50 each 10 FOR $30.00
10 ft., UHF plug to UHF plug. Blister package.



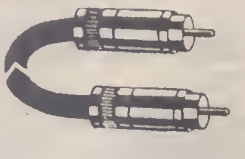
BP 75-OHM CABLE RG 59U
MODEL V-3403
OUR PRICE $3.50 each 10 FOR $30.00
3 ft., BNC plug to BNC plug. Blister package.
75-OHM CABLE
MODEL V-3410
OUR PRICE $3.95 each 10 FOR $35.00
10 ft., BNC plug to BNC plug. Blister package.



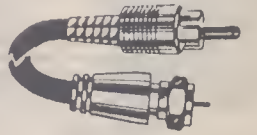
BP 75-OHM CABLE RG 59U
MODEL V-3506
OUR PRICE $1.95 each 10 FOR $17.50
6 ft., "F" connector both ends. Blister package.
75-OHM CABLE
MODEL V-3512
OUR PRICE $2.95 each 10 FOR $27.50
12 ft., "F" connector both ends. Blister package.



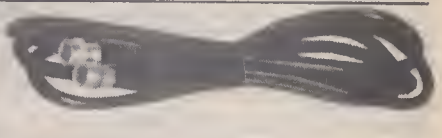
BP 75-OHM CABLE RG 59U
MODEL V-3606
OUR PRICE $1.75 each 10 FOR $15.00
6 ft., RCA plug both ends. Blister package.
75-OHM CABLE
MODEL V-3612
OUR PRICE $2.50 each 10 FOR $22.50
12 ft., RCA plug both ends. Blister package.



BP 75-OHM CABLE RG 59U
MODEL V-3703
OUR PRICE $1.95 each 10 FOR $17.50
3 ft., RCA plug to "F" connector. Blister package.
75-OHM CABLE RG 59U
MODEL V-3710
OUR PRICE $2.50 each 10 FOR $22.50
10 ft., RCA plug to "F" connector. Blister package.



BP COAXIAL JUMPER CABLE
MATV Application RG59/U Cable
F59 Connector—F59 Connector



MODEL F-3F 3 ft. length
OUR PRICE $1.25 each 10 FOR $10.00
MODEL F-6F 6 ft. length
OUR PRICE $1.50 each 10 FOR $12.00
MODEL F-12F 12 ft. length
OUR PRICE $2.50 each 10 FOR $20.00
MODEL F-20F 20 ft. length
OUR PRICE $2.99 each 10 FOR $25.00
MODEL F-50F 50 ft. length OUR PRICE $6.95 each
MODEL F-100 100 ft. length OUR PRICE $12.95 each

VIDEO ACCESSORIES

ACME-LITE LOW VOLTAGE VIDEOLITE
FOR BATTERY OPERATION
MODEL 7PB

OUR PRICE $49.95

DESCRIPTION
For use with 12BB or 12BL Betterybelt or any 12-volt system bettery. Compact end Lightweight for mounting directly on top of camere. Includes 3/8 Stand fitting (see #25 #94B for camera mounting). Fitted with male cigarette lighter plug et end of 6-ft. coil cord for connecting to battery. Includes DZB Quertz Lemp, 100-w, 12-v, 3200K, 50-hr lemp life.

ACME-LITE QUARTZ LAMP
MODEL 708G

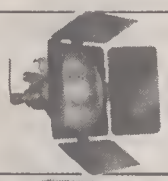
OUR PRICE $39.95

600 watt quartz lamp, 3200K, 75 hour reted life. Ideel for most lighting situations including lerge rooms and groups. Includes wire safety guard, built-in switch, bounce bracket. Lamp included.

ACME-LITE BARNDOOR QUARTZ LAMP
MODEL 640BD

OUR PRICE $54.95

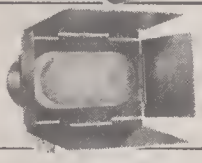
600 watts. Includes 4-leaf barndoors end lamp. Silver reflector. Broad beem, medium intensity.



ACME-LITE BARNDOOR QUARTZ LAMP
MODEL 710SL

OUR PRICE $74.95

1000 watt. 75 hour includes barndoors and quartz lamp.



ACME-LITE OPTIONAL ACCESSORIES

HANDLE model 94 ..... **$14.95**
For cameras having no mounting for light. Camera attaches to hendle pletform and light mounts on handle post.

SHOE ADAPTOR model 25 ..... **$5.95**
For cameras having shoe mounting on top. Adeptor inserts into camera shoe and light mounts on post.

HARWOOD VIDEO CAMERA LIGHT
MODEL VL-6

OUR PRICE $24.95

DESCRIPTION
100 Watt Video Camera Light with newly developed BDK lamp. Housed in a durable, lightweight, Bakelite case. On-off switch. Extended double wire guard. This is an excellent "fill-in" where available light is not quite bright enough to bring out desired details. Heavy duty supply cord. UL and CSA approved.

HANDLE AND BRACKET INCLUDED

HARWOOD VIDEO CAMERA LIGHT
MODEL VL-4

OUR PRICE $29.95

DESCRIPTION
Molded high impact Phenolic case provides cool operation. High gain reflector assures sharper details. Beam control lever adjusts from wide angle to telephoto converage. Heavy duty supply cord, on-off switch, wire guard. Ideal for weddings, banquets, and any situation of large groups of large rooms. Equipped with 600W DYH quartz Bromine lamp for 110-120V.

HANDLE AND BRACKET INCLUDED

HARWOOD PROFESSIONAL VIDEO CAMERA LIGHT
MODEL VL-1H

OUR PRICE $36.95

DESCRIPTION
Includes handle side mounting bracket. Aluminum die-cast housing. Exclusive Harwood Ellipsoid reflector provides greater light intensity and uniformity over larger area than ordinery reflectors while protecting lamp. Phenolic radiating chamber for cool operation. Equipped with 600W DYH Quartz Bromine Lamp for 110-120V. Heavy duty supply cord, on-off switch.

HANDLE AND BRACKET INCLUDED

VELBON VIDEO TRIPOD
MODEL SGB-32

OUR PRICE $79.95

DESCRIPTION
Our heavy-duty model, the SGB-32 is designed with a 2-way spring counter belanced panhead. The SGB-32 features an adjusteble friction controlled center column and radial leg braces for maximum stability. Measures: Min. height 20" — Max. height 63-1/2".

VELBON VIDEO TRIPOD
MODEL VGB-32C

OUR PRICE $59.95

DESCRIPTION
The VGB-32C is Velbon's popular medium weight video tripod. With center leg breces for stability, e geared center column for precise vertical adjustments and a 2-wey spring counter balanced panheed, the VGB-32C will help take the shake out of your home video productions. Measures: Min. height 21" — Max. height 58".

ACME-LITE HEAVY DUTY VIDEO TRIPOD
MODEL VIDIPOD-T **OUR PRICE $109.95**

DESCRIPTION
Vidipod-T includes 30 mm heavy duty tubular legs for extra strength for lerger cameras including leg braces end positive locking collets plus massive spring heed and long panning handle. Tripod includes crank & gear elevator column, large camera platform, swivel feet. Measurments: Min. height 24-1/2" — Max. height 62".

MODEL VIDIPOD-TF **OUR PRICE $119.95**

DESCRIPTION
Same tubular leg tripod but with FluidTorq head substituted instead of spring head for adjustable counterbalence end smoother head movement. Measurements: Min. height 24" — Max. height 63"

ACME-LITE HEAVY DUTY VIDEO KING
MODEL VT-940

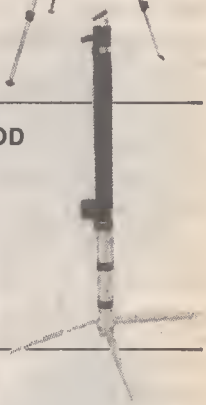
OUR PRICE $149.95

DESCRIPTION
Extre strong 3-sec. tubular tripod with 30mm diam. legs and extra large leg spread for sturdy support. Features quick disconnect platform which attaches to camera for fest mounting or dismounting. Oversize gearing end large crank to adjust heavy cameras with friction control to prevent slippage. Head pens on leaf spring for constant dreg and tilts on heavy tension coil spring. Long pan handle has adjustable angle end is reversible. Measurments: Min. height 23" — Max. height 59-1/2".

STITZ 4-SECTION SELF-STAND MONOPOD
MODEL UBH-1
OUR PRICE

$39.95

DESCRIPTION
The Stitz monopod has e versatile design that can be transformed from a monopod to a tripod by reversing the bottom section of the stand. Measures: Min. height 21" — Max. height 61".



STITZ 4-SECTION TUBULAR COMPACT LIGHT STAND
MODEL LS-1
OUR PRICE

$29.95

DESCRIPTION
With the S-1 shoe edaptor (for Movie end Video lights). Optional holders with multi-threaded screw-adapters to ettach the extension microphones are also evalleble. The LS-1 Measures: Min. height 25" — Max. height 66".

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VIDEO EQUIPMENT/ACCESSORIES

HARWOOD PRO-LUX/250 VIDEO CAMERA LIGHT

NEW!

MODEL PL-250

OUR PRICE $59.95

DESCRIPTION

Thia compact, lightwaight bright light waighs only 18 oz. EYH-FKT 200-hour, 250-watt quartz halogan lamp and atched aluminum raflactor provide intanalty end uniformity ovar a largar araa. This unit faaturas full vanting for cooler oparation; haat raalstant safaty glass; hend-grip camara shoe mount permits bounca of light from 0° to 90° varticelly; adjuatable flood to apot baam control; heevy duty powar cord for usa in any 110-120 volt AC outlat.

HARWOOD PRO-LUX/100 DC VIDEO CAMERA LIGHT

NEW!

MODEL PL-100

OUR PRICE $49.95

DESCRIPTION

Daalgnad for aaay portability, thia compact, lightwaight 15 oz. light la anginearad to provida tha "fill-in" lighting naadad to bring out daalrad datalls in alituationa whare availabla light is not quita adequata. This light faaturaa an atchad aluminum raflactor; a hand grip camara ahoa mount that awivels from 0° to 90° vartically; a bright FCR 12-volt 100-watt quartz halogan lamp with 3300° Kslvin color tamparature and haat rsalatant safsty glaaa. Equippad with collad cord end "cigaratta lightar" typa plug for uas with 12 volt, DC powar pack or auto or boat 12 volt cogaratta lightar racaptacle.

ACME-LITE TWINLITES

NEW!

MODEL 42-A **OUR PRICE $119.95**

DESCRIPTION

Acme-Lita introducaa tha Twinlita, two individually awitchad lampa in tendam. Ona 100w oparatas on 12v battary; tha other 250w oparetas on 115v wall outlet. Unit can be used with althar typa of powar sourca. Both lampa cen be used almultaneously on both powar sourcaa whan additional light and widar beem angle is naedad. Thay'ra two powar cords, ona for tha battery and ona for tha wall outlat. Tha naw rim-mountad lamp hes ita own built-in raflactor. Tha heevy yoka provides aasy ewivalling and bouncing and includas a fitting that will mount diractly onto video cemare for fit any light atend from 3/8" to 5/8".

AMBICO AC/DC FOCUSING VIDEOLIGHT

NEW!

MODEL V-0190

OUR PRICE $99.95

DESCRIPTION

Quartz-helogan lemps for eccureta color raproduction. Seperata sata of cords and lampa for AC and DC avoid hazerd of bureting bulbs with wrong voltage. Includas standerd plug end 200 wett AC lamp for 120 Volt houeahold racaptacle. Cigeratta lighter-type plug and 100 wett DC lamp for cer lightar recakptacla or 12 volt battary peck. Haat-abaorbing glass Saftey-Shlaid end ventad housing for axtra cool, aefe oparation. Wide-Spot awitch for adjusting from wida baam to apot light.

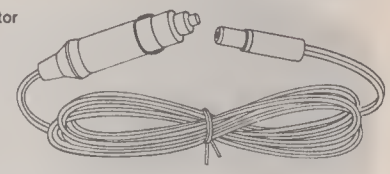
BP PORTABLE VCR CIGARETTE LIGHTER ADAPTORS

MODEL V-469
Cigeretta lighter plug to coexiel connactor
1.8 matar (8 faat)

OUR PRICE $2.95

MODEL V-470
Cigerette lightar plug to 4 pin din plug
1.8 matara (8 feet)

OUR PRICE $2.95



DESCRIPTION

DC powar cablas dasignad to provide an altarnata power supply for your portabla VCR whan awey from home. You no longar heve to worry about powar aupply problams whlia " on location". Each modal contalna e cigaratta lighter plug on ona and for aasy uaa in your car or boat adn on tha othar and, contalna a connactor for use with a particular VCR. Inatructione and apacific crosa raferanca informetion ara included. Display package.

General usaga te ea followe:
V-489- Fits most RCA, Panaaonic, Magnevox, Quasar, Philco, Hitechi, and Sylvenia porteble VCR'a.
V-470 - Fits moat Sony, JVC, Akai, end commarcial Penesonic porteble VCR'a.

HARWOODPLUS POWER—PORTABLE RECHARGEABLE NICKEL CADMIUM POWER PACK

NEW!

MODEL BP-1800

OUR PRICE $99.95

DESCRIPTION

Truly profesalonal parformanca meda poaalbla by advenca Nickal Cadmium technology. A compact, lightwaight (3.8 lb.) 4.5 Amp. Hrs. powar pack houaad in a high impect phenolic case. Providaa hour of 12 volt DC powar to aaaura dapandabla outdoor and location Vidao camere shooting. Comaa with comfortabla shoulder atrap and ratractebla balt clip. Faaturee long, dapendebla storaga capacity and rachargaa fully in juet 16 houra; ealf raaatting 18 amp safaty circuit braakar end universel "cigaretta lightar" typa connactor to powar not only Video Cemaras and Lighta, but any 12 volt, DC appilanca or davica.

AMBICO 10-AMP BELT POWERPACK

MODEL V-0805

OUR PRICE $79.95

DESCRIPTION

A naw atanderd of comfort and convenienca. Thaaa battery packa ara worn around tha waist, distributing their waight avenly and comfortebly. Tha welatbalt is adjuatable.
Connacting collcords don't hang loosaly or gat in tha way. Powarpacks ara covarad in handaoma, ruggad DuPont Cordure.
Powar calla ara aaalad, rachargabla laadecid in ruggad, shock-resletant, polypropylena casas. Thay hava a high cycla-lifa, excellant racovary rata, end tolereta wide tamparatura and climatic variationa. For avan graatar depandability end safety, powar racaptacla is fuaad. 12V, 10-amp. Powara VCR 8-10 hours, 100 watt light almoat 1 hour. Waighs laaa than 8 pounda. Rachargar includad.

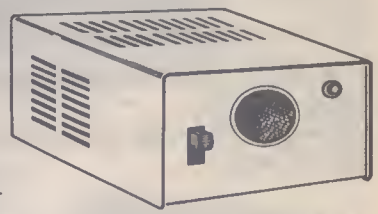
VDO-PAK VCR/CAMERA POWER SOURCE

MODEL VP-20

OUR PRICE $39.95

FEATURES

- A compact, lightweight powar aourca for ell portebla VCR/camare combinetions.
- Solid-Steta, fully raguleted ultra claan power, with euto-raset ovar-voltaga/short-circuit protection devica.
- UL and CSA approvad, dasignad epacificelly for uee with VHS and Beta formet portebla video racordars.
- PUah cigeratta lightar typa plug in end operata.



NI-PAK POWER PACK

Lightweight Carry on Shoulder or on Belt Rechargeable 12 Volt Nickel Cadmium Power Pack

MODEL NP-480

OUR PRICE $99.95 ONLY 3½ LBS.!

DESCRIPTION

The NI-Pak is mouldad in a flama raterdant, high impact ABS plestic houaing. Tha fluah mount atanderd cigeretta lighter sockat la racaeaad ao that tha pluga do not protrude bayoud tha NI-PAK case. It is usable althar on a balt or ahoulder etrap. Automatic rasat circuit braakar to protact from ahort circuit conditions. Up to 1500 racherges from tha durabla NICKEL-CADMIUM BATTERIES and tha whola packaga waighs only 3½ pounds. Cablas era avellaba for virturally all portabla VCR's and eny other aquipmant that usaa an axtarnel battery pack.

SPECIFICATIONS

Capacity: 8-8 hours -VCR, 35-40 minutes -light. **Weight:** 3.8 lbs. without cherger. **Size:** 8" x 8" x 1.5". **Life:** 1,000 to 1,500 racherga cyclas. **Power Cell:** Saelad, high-density nickal cadmium, rachargeebla. **Output:** 4.4 amp houra. **Protaction Device:** 20 amp circuit breekar, auto reset. **Charging Time:** 14 hours maximum. **Charging Typa:** Saelad unit, UL and CSA approvad. 120 volt AC as suppllad (220 volt evellable) **Cese:** Injection moldad, fleme retardant, high impact ABS plaatic. **Powar Connection:** Univarael cigarette-lighter connector (female).

NI PAK JR.

MODEL NP-200 **OUR PRICE $79.95**

SPECIFICATIONS

- 2.4 emp. • 2-2.5 houre—racording. • 3-5 houra—VCR.
- 20 minutas—light (75W). • 2.3 lbs. without charger. • Dimanaions: 7"x6"x1.5".

CIGARETTE LIGHTER ADAPTER CORDS WITH 3 AMP FUSE

Model CLM-1 Old Seta: Hitachi VR8500, VT 8800; RCA VGP 170, VF 170; Pantax Minolte **$7.50**

Model CLM-2 Smaller Bora: RCA VJP-900; Hitachi VT-7P **$8.50**

Model CLM-4 Panesonic NV 8410, 3000, 4000; Quaaar 5410; Magnavox 8377; Sylvania VC VC 4515; Philco V 1715; G.E.; Akel VPS 7350; Penesonic 4500 ..... **$7.50**

Model CLM-5 Sony SL 2000; Zenith VR 9800, VR 9500 ..... **$7.50**

Modal CLM-8 JVC HR 2200U **$7.50**

Model CLM-10 Penesonic 5500, 6500, 8800; Canon; Nikon; Olympua; G.E.; Philco; Sylvanie; Queser 5420; Magnevox **$8.50**

Model CLM-11 Penasonic 5800, 8110, 8484, 8485, 8500, 9800; Magnevox 8474, 8475; J.C. Panny 5110, 5115; Canon 30A; Sylvanie 4525, 4540; G.E. 5022, 5028, 5028, 5024; Olympua 105, 106; Philco 1728; Quaaer 5440, 5442, 5740, 5747 ..... **$14.95**

Modal CLM-14 JVC HR 2650U **$8.50**

CALL US/WE ACCEPT PHONE ORDERS • TOLL FREE 800-645-9518 • NYS TOLL FREE 800-832-1446

VIDEO EQUIPMENT

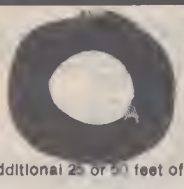
BP VIDEO EXTENSION CABLE

MODEL V-5525 25 Ft.

OUR PRICE **$39.95**

MODEL V-5550 50 Ft.

OUR PRICE **$59.95**



25 ft. or 50 ft.cable. The video extension cable allows an additional 25 or 50 feet of mobility. 10 pin male to 10 pin female. Display package.

BP VIDEO CAMERA EXTENSION

MODEL V-5625

OUR PRICE **$44.95**

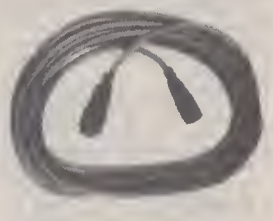
14 pin male to 14 pin female for Sony Betamax. 25 ft.

VIDEO CAMERA EXTENSION

MODEL V-5650

OUR PRICE **$64.95**

14 pin male to 14 pin female for Sony Betamax. 50 ft.



BP VIDEO PLUG

MODEL V-5500 OUR PRICE **$9.95** each

10 pin video plug.

BP PLASTIC COVER FOR VIDEO MACHINES

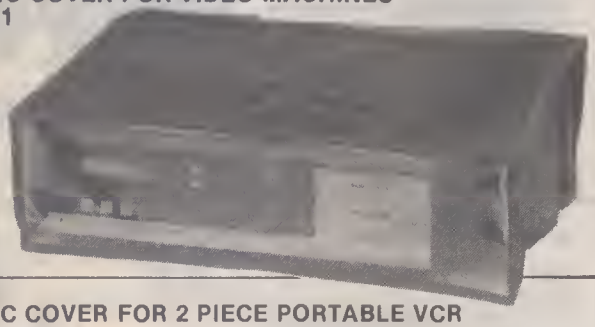
MODEL V-6601

OUR PRICE

$3.95

FEATURES

- Fits almost all VCR's.
- See thru front.



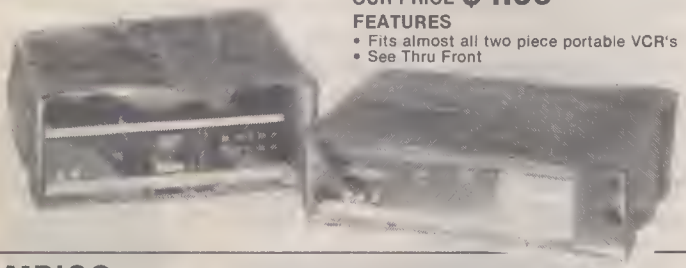
BP PLASTIC COVER FOR 2 PIECE PORTABLE VCR

MODEL V-6602

OUR PRICE **$4.95**

FEATURES

- Fits almost all two piece portable VCR's
- See Thru Front

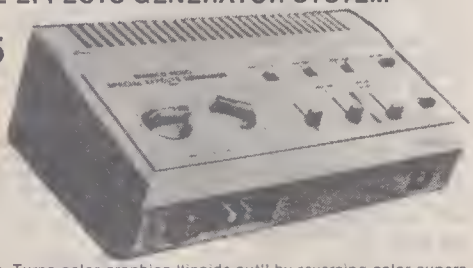


AMBICO SPECIAL EFFECTS GENERATOR SYSTEM

MODEL V-0303

OUR PRICE **$499.95**

DESCRIPTION



Adds titles, graphics, and special effects to video productions. Mixes sound from other sources with the video soundtrack. Electronically turns graphics into color. Provides Fade-In and Fade-Out, as well as Cut-In and Cut-Out, for both image and sound. SEG video camera (included) has special zoom lens to change size of graphics. Turns color graphics "inside-out" by reversing color supers at the flick of a switch. Creates a complete "studio control room" when a color video camera, VCR, and TV set or monitor are added to this Special Effects Generator System. Generator has controls for color selection, color base, pattern selection, key level, visual and audio fades, and remote control. Provides connections for video, audio, color camera, SEG video camera, microphone and line, as well as video, audio, and monitor outputs. Complete system includes: SEG generator, SEG videocamera, copystand with calibrated column, masks, cables, and detailed instruction manual.

BP VIDEO/AUDIO PAUSE CONTROL

MODEL V-5055

OUR PRICE **$7.95**

DESCRIPTION

Start-Stop Control at the push of a button. Provides smooth editing, dubbing, and recording. Permits you to eliminate unwanted commercials while video and audio taping. Can be used with most Video Cassette Recorders and Audio Recorders, Reel-to-Reel, Cassette, and 8-Track Cartridge Units. Has 12 ft. Cable to mate with Pause Control Jack of most recorders.

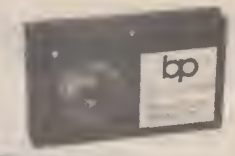
BP BETA CLEANER

MODEL V-6671

OUR PRICE **$9.95**

FEATURES

- Beta Video Cassette Cleaner



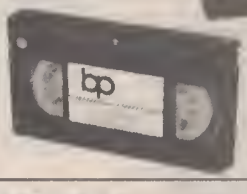
VHS CLEANER

MODEL V-6672

OUR PRICE **$9.95**

FEATURES

- VHS Video Cassette Cleaner



ALLSOP VIDEO CASSETTE RECORDER CLEANERS

MODEL 60100

OUR PRICE **$12.95** each

5 FOR **$60.00**

DESCRIPTION

VHS Video cleaner and solution.

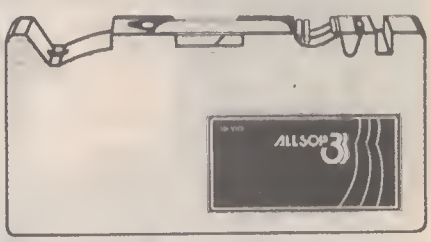
MODEL 66000

OUR PRICE **$12.95** each

5 FOR **$60.00**

DESCRIPTION

Gen II/for Beta Video cleaner and solution for all Beta VCR's.



ALLSOP VIDEO CASSETTE RECORDER CLEANERS

MODEL 63010

OUR PRICE **$4.95**

DESCRIPTION

VHS refill kit.

ALLSOP CASSETTE DECK CLEANER

MODEL 79050

OUR PRICE **$4.95**

DESCRIPTION

Portable and personal audio cassette cleaner. Includes 1/2 oz. bottle of cleaning solution.

BP CASSETTE CARRYING CASE

MODEL CT-1010

OUR PRICE **$2.95**

FEATURES

- Cassette carrying case with handle.
- Holds up to 12 cassette tapes.

BP CASSETTE CABINET

MODEL CT-6030

OUR PRICE **$12.95**

FEATURES

- Stores 30 cassettes.
- Each drawer holds 10 tapes.
- Keeps cassettes clean and safe.
- Unlimited mounting.

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VIDEO BAGS/VIDEO ENHANCER

KIWI VIDEO RECORDER BAG
MODEL VR-1100

OUR PRICE $55.00

For Panasonic (NV8410, 3000 and 4000 series), Quasar (5410), Magnavox (6377), Sylvania (VC4515), Philco (V1715), Sanyo (VPR4800) and GE. Video Recorder Bag converts from shoulder bag to back-pack. 12-1/2 x 5-1/2 x 10-1/2". 1 lb. 3 oz.

KIWI VIDEO RECORDER BAG

MODEL VR-1150 **OUR PRICE $55.00**

For Panasonic (5500), Quasar (5420), Magnavox (8382), Canon, Nikon, Olympus, GE, Philco and Sylvania. Video Recorder Bag converts from shoulder bag to back-pack. 10 x 4 x 10". 1 lb.

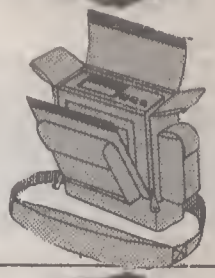
MODEL VR-1175 **OUR PRICE $55.00**

For Panasonic (8500, 6400, 6500), Quasar (5420), Magnavox (8382), Canon, Nikon, Olympus, GE (CVP4022), Philco, Sylvania

KIWI VIDEO RECORDER BAG
MODEL VR-1250

OUR PRICE $55.00

For RCA (VJP900), VDP150), Hitachi (VT3P, VT7A), Pentax (PV-R1000A) and Minolta. Video Recorder bag converts from shoulder bag to back-pack. 12 x 5½ x 10½" 1 lb. 4 oza.



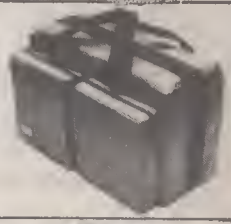
KIWI REGULAR VIDEO CAMERA BAG

MODEL VCR-100 **OUR PRICE $49.95**

17 x 10 x 9". 3-1/2 lbs. Will hold most Video Cameras (main compartment is 17 x 6 x 9"), accessories and tapes.

MODEL VCR-200 **OUR PRICE $49.95**

17 x 10 x 12. 3-3/4 lbs. Our most popular Video Bag, holds most medium and large cameras—only 3 inches higher than the VCR-100. No need to collapse handles or microphones—always camera-ready.



KIWI EXTRA LARGE VIDEO CAMERA BAG
MODEL VCR-275

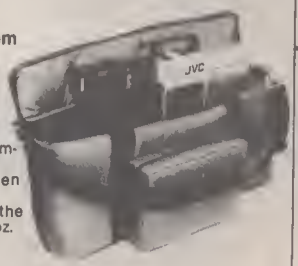
OUR PRICE $66.00

6 x 12 x 17-1/2". 5-3/4 lbs. The '747' of Video Camera Bags. It will hold combinations of cameras, recorders, tuner-timers, accessories, etc.

KIWI 'JVC' MINI-SYSTEM BAG
Now, a camera-ready bag for the 'JVC' mini-system (#GZ-S3 and #HRC-3)
MODEL VCR-75

OUR PRICE $49.95

The Video Camera, the Video Recorder and the new Shoulder brace. The entire unit form-fits into the main compartment (assembled) and can be camera-ready with one hand. This completely padded bag has soft-grip handles, an adjustable/removeable shoulder strap and an outer accessory pocket (10 x 2 x 6"). The finest transportation for the smallest state-of-the-art Video! 23 x 6 x 11-1/2". 2 lbs. 14 oz.



BETA MOVIE/CAMCORDER BAG
MODEL VCR-65

15 x 9 x 10". 1 lb. 12 ozs. **OUR PRICE $45.00**

KIWI VIDEO RECORDER BAG
MODEL VR-1350

OUR PRICE $55.00

For JVC (2650U and HR2200U). Video Recorder bag converts from shoulder bag to back-pack. 12 x 8-1/2 10-1/2". 1 lb. 4 oz.

KIWI VIDEO RECORDER BAG

MODEL VR-1375 **OUR PRICE $55.00**

For JVC #HRC-3. Video Recorder Bag can be used as shoulder bag or waist bag. 10 x 3 x 8-1/4". 1 lb.

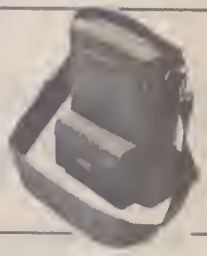
MODEL VR-1380 **OUR PRICE $55.00**

Same as above but for Zenith VR-5000

KIWI VIDEO RECORDER BAG
MODEL VR-1400

OUR PRICE $55.00

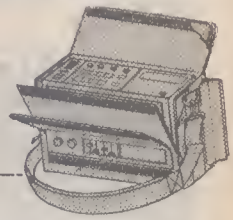
For Sony (SL2000) and Zenith (VR9600 and VR9500). Video Recorder Bag converts from shoulder bag to back-pack. 9 x 6 x 13". 1 lb. 3 oz.



KIWI VIDEO RECORDER BAG
MODEL VR-1700

OUR PRICE $55.00

For Mitsubishi (HS700R). Video Recorder Bag converts from shoulder bag to back-pack. 17 x 5 x 10". 1 lb. 13 ozs.



KIWI
"PAPARAZZI" CAMERA BAG
Every Feature Photographers want
MODEL CB-800

OUR PRICE $59.95

One large main compartment (15½"x 8"x 7"), with 6 padded Velcro® dividers and three padded accessory pockets (1 pocket - 12"x 1½"x 5½", 2 pockets - 6"x 1½"x 5½"). Padded top with a zippered inside document/filter pocket (14½"x 6½"), 14 elastic film loops, buckled waist-strap, tripod tie-downs, padded shoulder strap, soft-grip handles, etc. . . .Finally, a complete camera bag! 19"x 10"x 9" 2¾ lbs.

KIWI VIDEO TRANSPORT BAG
MODEL VT-101

OUR PRICE $44.95

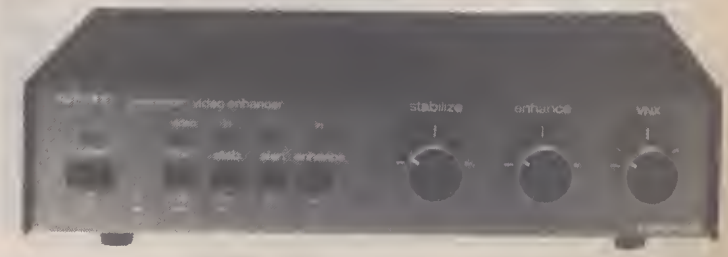
Designed to carry all types of table top video recorders (VHS & BETA), that do not exceed 5½" in height - including some video disc machines. Hand carry or shoulder carry. 21"x 5½" 16" 2½ lbs.

VIDICRAFT INTEGRATED VIDEO ENHANCER

MODEL IVE-100 **OUR PRICE $179.95**

DESCRIPTION

The IVE-100 integrated video enhancer is an ideal all-in-one component for the single VCR owner—and an economical prime component for the two VCR owner. Features include image enhancement, enhancement noise reduction, vertical stabilization, dual input switching, video indicator light, three audio/video outputs, and RF modulator output for direct connection to your TV receiver. In addition, the IVE-100 incorporates a unique commercial alert that beeps to warn of commercial interruptions. Instead of watching for commercials, relax and wait for the reminder tone. To use the IVE-100, connect directly between VCR and TV receiver or monitor, or between two VCR's. For additional information on features, see descriptions under the Detailer I image enhancer, Guard Stabilizer, and RF Modulator.



CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

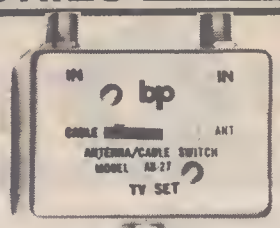
VIDEO ACCESSORIES

BP COAX AB SWITCH
MODEL AB-27

OUR PRICE $2.95 each

10 FOR $20.00

- Input: 75 ohm.
- Output: 75 ohm.
- Isolation: A & B 85 dB; A & TV 85 dB; B & TV 85 dB.
- Blister package.

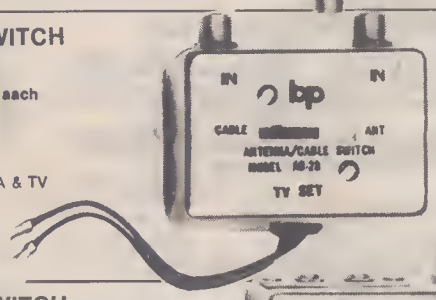


BP COAX AB SWITCH
MODEL AB-28

OUR PRICE $2.95 each

10 FOR $20.00

- Input: 75 ohm.
- Output: 300 ohm.
- Isolation: A & B 70 dB; A & TV 75 dB; B & TV 75 dB.
- Blister package

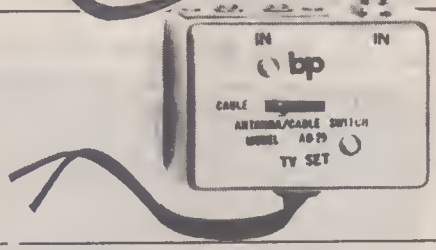


BP COAX AB SWITCH
MODEL AB-29

OUR PRICE $2.95 each

10 FOR $20.00

- Input: 75 & 300 ohm.
- Output: 300 ohm.
- Isolation: A & B 85 dB; A & TV 70 dB; B & TV 70 dB.
- Blister package.

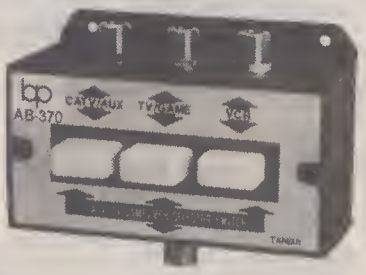


BP COAXIAL SWITCHING FOR TV AND VIDEO CASSETTE RECORDERS
MODEL AB-370

OUR PRICE $6.95 each

5 FOR $30.00

3-position coaxial push-button switch.



DESCRIPTION

Heavily shielded switch box providing maximum isolation to avoid 'bleeding' of one strong channel into another during TV viewing. Four 'F' connectors accept 75 coaxial cable with F59 fittings for switching to various selections of TV and antenna combinations. Pushbutton switches are located conveniently on top of the attractive, deep blue metal cabinet having keyhole cutouts for flush wall mounting. Three 75 ohm resistors properly terminate any unused position. Overall size: 3-9/16" x 2-3/4" x 2". Individually boxed.

MODEL AB-380

OUR PRICE $6.95 each

5 FOR $30.00

3-position coaxial push-button switch.

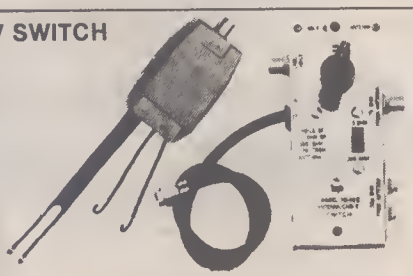
FEATURES
- Three inputs: Two F connectors and one RCA jack. One output: F connector.
- All other features are the same as AB370.

BP ANTENNA/CABLE TV SWITCH
MODEL AB-400

OUR PRICE $7.95 each

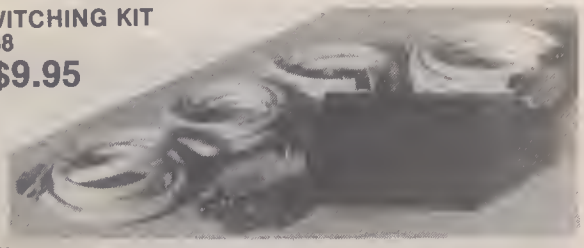
10 FOR $65.00

- Switches from cable to antenna system instantly.
- Accepts 75 ohm or 300 ohm inputs.
- Outputs for 75 or 300 ohm (VHF/UHF splitter balun supplied.)



CABLE SWITCHING KIT
MODEL V-488

OUR PRICE $9.95



DESCRIPTION

Easy to install - Economical way to record any pay channel - while viewing any standard channel. Consists of 3— F-3F, 1— F-6F, 1—A/B Switch, 1—CA-2111

BP ANTENNA/CABLE TV SWITCH
MODEL AB-410

OUR PRICE $6.95 each 10 FOR $60.00

- Switches from cable to antenna system instantly.
- Accepts 75 or 300 ohm inputs.
- Outputs for 75 or 300 ohm switchable.

BP COAXIAL SWITCH
MODEL AB-30

OUR PRICE $5.95 each

10 FOR $50.00

DESCRIPTION

A versatile product, with a range of consumer and MATV applications. Highly reliable with only one moving part. Individually packed, lose cable connectors. Twelve units per standard carton.

SPECIFICATIONS
- Impedance: 75 ohms, self-termination of unused input.
- Band Pass: 0 to 890 mHz.
- Isolation: 0 to 300 mHz, 90 dB, 300 to 90 mHz, 80 dB.
- Insertion Loss: Less than 0.2 dB.
- Connectors: Three F-61A chassis connectors 'A', 'B' and output.

APPLICATIONS
- Dual CATV and MATV A/B cable systems.
- Home TV antenna systems.
- With video cassette recording systems.
- The exceptionally high isolation between A & B of Model AB-30 permits its use in any A/B situation without concern about possible co-channel interference.

BP TV GAME SWITCH
MODEL V-450

OUR PRICE $2.50 each 10 FOR $20.00

DESCRIPTION

300 ohm in and out with RCA plug.

FEATURES
- Permanent hook-up of TV video game to set.
- Quick selection of video game or TV at the change of the switch.
- Easy to install.

BP TV GAME SWITCH
MODEL V-451

OUR PRICE $2.95 each 10 FOR $25.00

DESCRIPTION

75 and 300 ohm in and out with RCA plug.

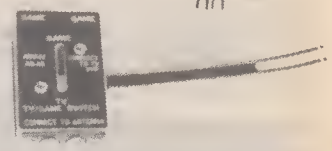
FEATURES
- Permanent hook-up of TV video game to set.
- Quick selection of video game or TV at the change of a switch.
- Easy to install.

BP TWO GAME TV SWITCH
MODEL V-452

OUR PRICE $2.75 each

10 FOR $25.00

- Two RCA Jack.



BP DUAL INPUT/DUAL OUTPUT TV GAME SWITCHES
MODEL V-453

OUR PRICE $3.50 each 10 FOR $30.00

DESCRIPTION

Universal switch permits connection of TV game to TV with either 75 or 300 ohm input. May be used with 75 or 300 ohm antenna input.

MODEL V-454

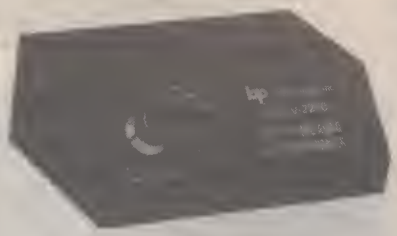
OUR PRICE $3.75 each 10 FOR $32.50

V-454 - Same as above but for two games.

BP TV TO STEREO AUDIO ADAPTOR/ENHANCER

MODEL V-2250

OUR PRICE **$19.95**



DESCRIPTION
Tha V-2250 aasily connects to eny TV and Stereo Amplifier — letting you enjoy simulatad stereo eound from eil your favorite TV ehows. Makae teping TV Audio eimple — TV cen be loceted eny dietence from stareo. Dailvers two chennele of simulated eterao.

PERFECT FOR MTV

FEATURES
- The V-2250 givas you simuleted stereo from all your fevorite TV shows.
- With noise elimineter and epeciel output lavel controle.
- Frequency response: 50 Hz - 15,00 KHz.

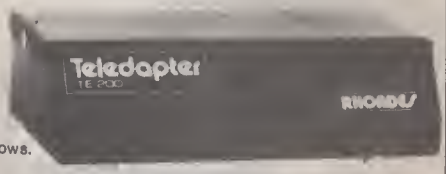
SPECIFICATIONS
- Ineertion Loss - 3dB mex.
- Volume Effect - 40dB min.
- Noise Elimination: 6dB min.
- Dimeneions: W 5 1/8" x H 2 1/2" x D 3 1/4".

RHOADES STEREO TO TV ADAPTOR

MODEL TE-200

OUR PRICE **$24.95**

PERFECT FOR MTV



FEATURES
- Teledepter givee you simulated etereo from eil your fevorite TV ehows.

DESCRIPTION
The TE-200 Teledepter eesily connacts to eny TV & Stereo Amplifier — letting you anjoy simuletad stereo sound from eil your favorite TV shows. Mekaa teping TV Audio aimple — TV cen be loceted any distenca from stareo. Dellvers two chennels of simulatad stereo — Coupling natwork metches TV impedence to that required by stereo amplifier — to maintain frequency responea — Trensformer isoleted input and output protects both starao and TV units. Provides a constent impadance load for the TV output emplifier regardlass of whather or not the TV speeker is used. Providee sufficient gain to driva the stereo safely end afficiently. Pluge into tepe or auxiliery input of eny amplifier, also AM tuners, mono records, video tape recorders or any source you wieh to simuiete stareo with. Tha TE-200 has e high lavel input along with en adjustebie level control. Frequancy Reaponsa: 50-13,000 kHz. Siza: 5-1/4" x 1-1/2" x 3".

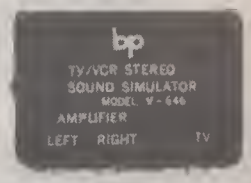
BP TV STEREO SOUND SIMULATOR

MODEL V-646

OUR PRICE **$5.95** each

6 FOR **$30.00**

PERFECT FOR MTV



DESCRIPTION
Stereo sound simulator. Simple connection to your TV and stereo. Now enjoy TV viewing while listening in stereo. Great for VCR's.

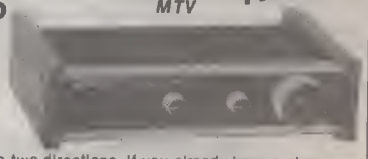
RHOADES TELE-AMP *PERFECT FOR MTV!*

MODEL TA-450

PERFECT FOR MTV

NEW!

DESCRIPTION OUR PRICE **$94.95**



The Stereo-Plex generetor trensforms tha mono-audi eignal into two sperkling laft and right chennels of Stereo-Plex. Mono sounde, evan when played through two speekers, appeer to coma from one diraction tha canter. Stereo end Sterao-Plex sounds come from two directions. If you eiraady hava a starao TV or VCR, no problem. Just plug tham in (TA-450). Since most TV end Cable programming is mono, the Stareo-Plax circuitry will pick up whera your starao TV or VCR stops short. When there is a atereo program preeent, just cut the Stareo-Plax off, end tha stereo aignel will go through the starao emplifier only (TA-450). Drive most any eize starao spaakers to room-splitting sound. Low distortion, 0.01% typicel at full powar, end e broad 20 to 20,000Hz frequancy response assura smooth reproduction. The TA-450 Tale-Amp® oparates on 110-120V AC @ 18 wette.

BP DUBBING CABLES with GOLD CONNECTORS

MODEL V-3622

OUR PRICE **$12.95**

2 FOR **$20.00**

FEATURES
- Daluxe 10 Ft. Dubbing Cabla for Video & Audio
- Two Gold Pleted RCA Plugs on Both Ends

RHOADES STEREO SYNTHESIZER AND STEREO SWITCHER

MODEL TE-250

OUR PRICE **$49.95**

FEATURES
- Synthesizer bypase
- Two starao inputs
- One mono low impadence isoleted input
- Output level control

DESCRIPTION
Tha TE-250 uses synthasizing sterao sound from mono sources, TV, VCR, racord, tepe, atc. Adding auxiliary inputs to stareo system.

SPECIFICATIONS
Size: 7"W x 2"H x 6"D **Frequancy Reaponca:** 50 to 16,000 Hz **Caae:** Aluminum

RHOADES OMNI-PLEXER

REAR CHANNEL DECODER/AMPLIFIER FOR SURROUND SOUND PROCESSING

MODEL TA-1001 OUR PRICE **$99.95**

NEW!

FEATURES
- Easy hookup to tha front channei etereo empiifier apeeker terminala.
- Reer channel volume le controllad by front channai empiifiar voiume control.
- Built in raer channel stareo ampiifier to driva any reer channai apeakers.
- Wiii dacode reer chennele from eil starao end aynthesized stereo eources, TV, VCR, FM Tepas, Sateiiitee and Recorde.

DESCRIPTION
Most eil etereo programming hes information conteinad on the two channels, when properly decoded, which can provide two additionei chenneis. These tachniquas ere bacoming widely uaed in movie thaaters throughout the world. Regardiese of the nanie they go by, the effect ia to craate, e aurround type of eound, that providas emblenca (deleyad information), and a multi-chennai wrap around affact, that literaly adds e new dimanelon to sterao eudio. Now, with the TA-1001 these same eound effects can be enjoyed at home.

RHOADES STEREO SYNTHESIZER/AUDIO SWITCHER/-AMBIENCE PROCESSOR/NOISE REDUCTION UNIT

MODEL TE-600

OUR PRICE **$119.95**

FEATURES
- Three starao inputs; ona mono high impedence input; one mono low impedenca isolatad input; tapa monitor loop
- Off/On bypass for all sactions
- Adjustable input level

DESCRIPTION
Adde inputs to component stereo; aynthaeizing atarao eound from mono aourcaa; edding embience to stereo sourcas; dynemic nolea reduction for mono or atereo sourcas.

SPECIFICATION
Siza: 9.5"W x 3"H x 7"D **Frequancy Rasponae:** 20 to 20,000 Hz **Caaa:** Black eiuminum and walnut Powar: 110V AC

TV CONVERTERS

JNEL CORP. "CABLEMASTER™" CABLE/VCR PROGRAMMER

Restore Programmability To Your VCR!

MODEL CM-1 OUR PRICE $99.95

NEW!

FEATURES
- 14-day, 8-event timer. • Quartz clock.
- Displays week, day, time, channel and mode of operation.
- Automatic sequencing of programmed events. • No installation.
- Eliminates the need for cable-ready VCR. • Simple, easy programming.
- Unique personality plug-in modules assure compatability with any make and model of infrared cable TV converter/descrambler.

DESCRIPTION

The CableMaster cable/VCR programmer solves your problem by adding its 8-event, 2-week time-control feature to your converter/descrambler which allows the unattended recording of any combination of channels (including "paid-for" premium services). CableMaster controls your cable converter/descrambler by transmitting infrared codes similar to those "sent" by hand-held remotes. Thus, there are no connections to be made to either the converter/descrambler or to your VCR.

A "personality" module that plugs into CableMaster's rear panel carries the necessary codes to control the specific converter/descrambler used in your area. This unique approach makes it possible for CableMaster to add its time-control features to virtually any converter/descrambler that has infrared capability. Should you move or should your cable company ever change "boxes", you simply buy the corresponding personality module and plug it in. Personality modules will also be available for controlling satellite receivers with infrared features.

CableMaster's Personality Modules

MODEL	COMPATIBLE CABLE CONVERTERS	OUR PRICE
PM-010	Jerrold 400 (DRX series) Jerrold LCC-58 Jerrold LCC-91	$29.95
PM-011	Jerrold 450 (DRZ series)	29.95
PM-020	Oak RTC-56 Oak RKDM-400	29.95
PM-021	Oak Sigma	29.95
PM-140	Teknika 6510	29.95
PM-150	Archer 15-1285	29.95

BP UHF CABLE CONVERTER WITH FINE TUNING 46 CHANNEL

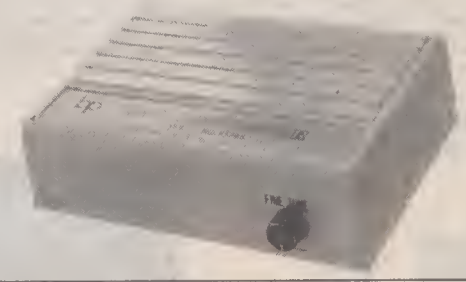
MODEL V-5746 OUR PRICE $19.95

DIMENSIONS (WHD): 6-1/2 x 2-1/8 x 4-1/2".

SPECIAL!

FOR CABLE TV

FEATURES
- 48 channels.
- Fully shielded oscillator eliminates herring bone distortion.
- For Beta/VHS recording.
- High performance at an economy price.
- Record and use TV's remote control.
- Allows complete programming of VTR.
- Super color quality for watching or recording and selectable channels.
- Receives midband, superband/and all VHF TV channels on UHF, for all kinds of TV set.
- Trimmer allows frequency adjustment of 2 ± mHz.



JERROLD 91 CHANNEL CORDLESS TV CONVERTER

MODEL LCC-91 OUR PRICE $99.95

FOR UHF & VHF ANTENNA SYSTEMS NOT FOR CABLE TV

FEATURES
- 91 channel. • VHF.
- UHF. • Nine mid-band channels.

DESCRIPTION

Presenting the new TV Remote Controller from General Instrument. It's ultra-convenient. Getting up from your favorite, comfortable easy chair to change channels is a nuisance. With our new, wireless LCC-91 TV Remote Controller you do it — sitting down — at the push of a button, and you can change as many as 91 channels. (Channel capacity is limited by the number of channels you receive in your viewing area.) Not only can you change channels, you can turn your television set on or off, and even fine tune your TV's picture without leaving your chair, or bed. Our controller is completely wireless, and allows you to remotely control your set from virtually any viewing distance.

JERROLD 68 CHANNEL CORDLESS CATV CONVERTER with BUILT-IN A/B SWITCH FOR DUAL CABLE SYSTEMS

MODEL DRZ

OUR PRICE $99.95

FEATURES
- Convenience—You can remotely control your TV set from virtually any viewing distance. There is no cord that ties you to your TV. No cord to limit your TV viewing position.
- Entertainment—You many receive up to 66 TV channels. Your channel capacity is limited only by the number of channels your cable company carries.
- Remote TV Control—You can change channels, turn your TV set on or off, or even fine tune your set without leaving your comfortable viewing position. Constant interruptions previously required to adjust your set are a thing of the past.
- On/Off button.
- Channel selection.
- Channel Stepping: By depressing either the '+' or '−' channel button, channels may be changed up or down.
- Fine Tuning: Ensure that the AFC (or AFT) control on your TV set has been turned off.
- Secondary Controls: Secondary controls on the top of the receiver are provided so that the converter may still be used even if the transmitter is misplaced or its battery fails.

For Dual Cable Systems Order Optional A/B Adaptor

MODEL A/B

OUR PRICE $20.00

FORDHAM RADIO • 260 MOTOR PARKWAY • HAUPPAUGE • NEW YORK 11788

JERROLD 58 CHANNEL CORDLESS TV CONVERTER

MODEL LCC-58 (DRX-3-105)

OUR PRICE **$89.95** *FOR CABLE TV*

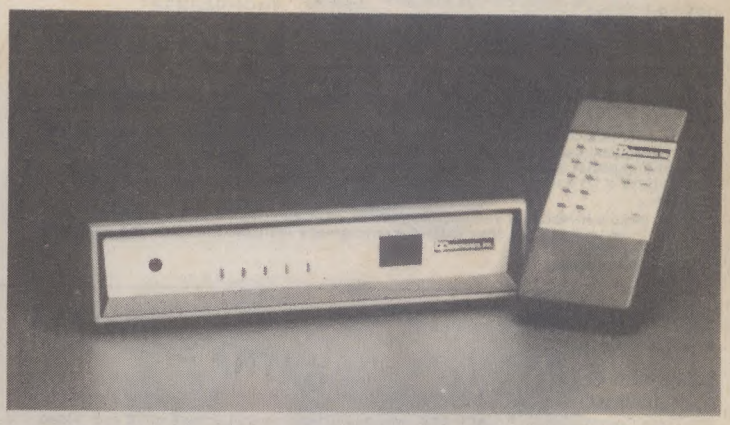
FEATURES

- Convenience—You can remotely control your TV set from virtually any viewing distance. There is no cord that ties you to your TV. No cord to limit your TV viewing position.
- Entertainment—You may receive up to 58 TV channels. Your channel capacity is limited only by the number of channels your cable company carries.
- Remote TV Control—You can change channels, turn your TV set on or off, or even fine tune your set without leaving your comfortable viewing position. Constant interruptions previously required to adjust your set are a thing of the past.
- Adaptability—You may attach your Jerrold 400 to any age or model of TV set in minutes. No tools are required.
- On/Off button. • Channel selection.
- Channel Stepping: By depressing either the '+' or '—' channel button, channels may be changed up or down.
- Fine Tuning: Ensure that the AFC (orAFT) control on your TV set has been turned off.
- Secondary Controls: Secondary controls on the top of the receiver are provided so that the converter may still be used even if the transmitter is misplaced or its battery fails.
- Also available in channel 2.

BP 61 CHANNEL WIRELESS REMOTE

MODEL V-7661

OUR PRICE **$69.95** *FOR CABLE TV* **SPECIAL!**



FEATURES

- Infrared remote control TV on/off, channel selection & fine tuning.
- Full 61 channel capability.
- Micro Processor controlled PLL operation.
- Provide convenient and comfortable TV program enjoyment.
- Converter panel controllable for channel up, down, on/off, fine tuning.
- LED digital channel display.
- Works with all TV models, compatible with MATV/CATV system.

SPECIFICATIONS

CONVERTER: Input Bandwidth: 54-402 MHz. **Output Channal**: Channel 3. **Input/Output Impedance**: 75 ohms. **Geln**: 2-7 dB. **Noise Figura**: 11 dB nom. 13 dB max. **Cross Modulation**: —60 dB min. (60CH IN, each at + 15 dB mV). **Fine Tuning Range**: ± 3 MHz in 125 KHz steps. **Frequency Steblity**: ± 50 KHz. **Input Return Loss**: 8 dB min. **Output Raturn Loss**: 10 dB min. **Locel Oscillator Leekege**: —15 dBmV max. at input. **Power Consumption**: 12 wetts at 120 Volts AC 60 Hz. **TRANSMITTER: Renge**: 8m (25 feet) ± 30° Angle. **Power**: Standard 9V Volts battery.

TEKNIKA 105 CHANNEL WIRELESS REMOTE CONTROL CABLE TV CONVERTER FOR CABLE TV, UHF, VHF ANTENNA SYSTEMS OR BOTH

MODEL 6401

OUR PRICE **$129.95**

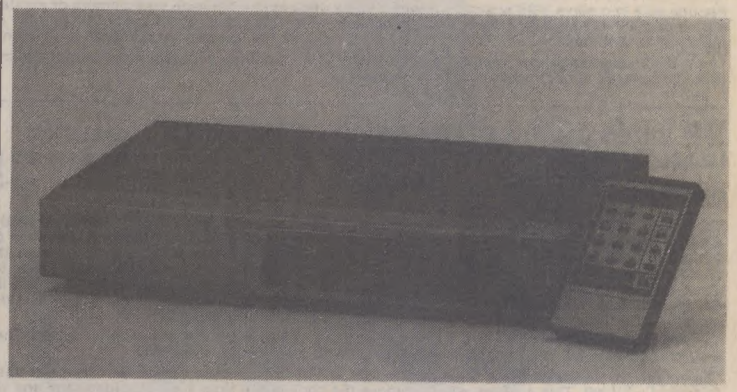
FEATURES

- For any TV set: Converts any TV set to complete remote control capability.
- Quick and easy to install: Connect just four wires between tuner and your TV set within minutes. No internal TV connections required.
- Wireless Operation: Employment of infrared beam principle eliminates bothersome wires between hand unit and tuner. Functions at a distance of up to 25 feet or more.
- Cable-ready electronic tuning: Quartz synthesizer tuner lets you select from a total of 105 different channels, including VHF (2-13), UHF (14-83), cable midband (A-1) and cable superband (J-W).
- Direct access/scan selection system: microprocessor controlled system automatically locks onto next available channel when UP or DOWN button is pressed. If button is held down, each available channel is viewed for about 1-1/2 seconds and search then continues. Tunes directly to a specific channel when channel number is entered via 10-key keypad.
- Special AIR/CABLE selector switch: Automatically fine tunes cable TV channels that are offset, eliminating color fading or picture instability.
- Large LED display: Clearly indicates selected TV/CATV channel.
- High reliability: 100 per cent solid-state construction assures you of high performance, long life, end ease of service.
- Master power switch: Controls power to TV set and remote control tuner. Conveniently turns off all power when set is not going to be used for an extended period of time.
- Fine tuning control: Presets fine tuning for up to six channels. Particularly useful for obtaining best reception in fringe areas or for adjusting picture from a VCR or TV game.
- UL Listed, FCC and DHHS approved.

TEKNIKA WIRELESS REMOTE CONTROL TV TUNER AND CABLE CONVERTER

MODEL 6510-T

OUR PRICE **$169.95** *FOR CABLE TV OR ANTENNA UHF/VHF* ***VOLUME CONTROL!***



DESCRIPTION

Wireless Remote Control with Volume for Cable TV* and VHF-UHF entenna systems upgrades any TV to 140 channel capability.

FEATURES

- **Works With Any TV Set** — Converts any non-remote TV to full remote control. Provides improved picture quality and stronger reception capability with most sets. Perfect for easy chair, bedroom, or convalescent viewing. Serves as a simple, inexpensive repair for a TV's defective tuner.
- **Quick end Easy To Insteli**
- **Off-Air and Ceble Compatible** — Allows reception of signals off-air (through e master, external or internal antenna system) and through cable*. Offers up to 140 channel selection — off-air VHF 2-13, UHF 14-83; CATV: VHF 2-13, midband A-1, superband J-W, hyperband AA-ZZ, AAA-BBB and IRC 4'.
- **Quartz Frequency Synthesizer Tuning** — With added Phase Lock Loop (PLL) circuitry, the 6510 automatically locks onto the best reception point and holds it.
- **Direct Access/Memory Scen Selection System** — Automatically tunes to the next channel set into memory when the UP or DOWN scan button is pressed.
- **Ultra-Compact, Wireless Remote Control Hend Unit** — Controls direct access/memory scanning, on/off, volume (in 48 steps), muting and A/B antenna switching.
- **A/B Antenne Selection**
- **Seperete Video-Audio Outputs** — Provided in addition to regular RF output to ellow integration of the tuner with a hi-fi systme and video monitor/TV. Direct connection delivers enhanced performance and minimizes signal loss.
- **Stereo Broedcast Reedy** — Provided with a multiplex connector output (included).
- **Advenced Design Elements** — Include RF amp, shielded inputs/outputs, auto gain control (AGC) and auto frequency control (AFC) to maintain color purity and picture clarity.

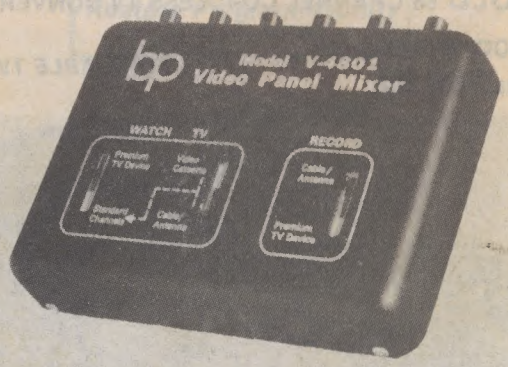
CHARGE IT—VISA•MASTER CARD•AMERICAN EXPRESS • Toll Free 800-645-9518 • NYS Toll Free 800-832-1446

VIDEO EQUIPMENT

BP VIDEO SWITCHER
MODEL V-4801

OUR PRICE $19.95

EXTRA SPECIAL!



DESCRIPTION

Now all you do is flip a switch to watch a program on any channel, while simultaneously recording a program on any cable or pay TV channel—or vice versa. Plus, you can use your recorder's programming feature to record cable or pay TV programs while you're away.

The Switcher also allows you to use your remote control device while recording. That's something you can't do on many video systems.

The Switcher is a completely pre-assembled unit that you simply 'plug into' your system using the special cables, included. Anyone can do the job in less than 5 minutes—with no need for special tools or technical know-how. Best of all, the Switcher is small enough (5 x 7 x 1") and good looking enough to fit in beautifully with your video components.

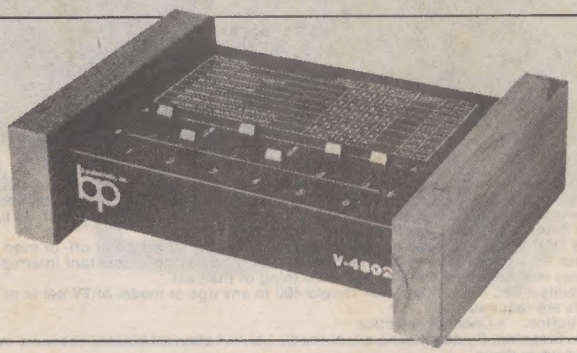
With the sizable investment you have in your TV, VCR and Cable/Pay TV systems, the Switcher gives you an easy, inexpensive way to greatly increase the value and enjoyment of that investment.

- **Cables Not Supplied**

BP VIDEO CONTROL CENTER
MODEL V-4802

OUR PRICE $19.95

EXTRA SPECIAL!



DESCRIPTION

The Video Control Center Model V-4802 provides remote control access of all your Video, TV or Cable inputs to your TV set or Big Screen TV from one convenient location by merely flipping a switch.

FEATURES

- No need to change cables to access your desired Video or TV input to your TV set.
- One output, your TV set or Big Screen TV.
- Four inputs can handle whatever you desire to send to your TV set.
- Small, compact, lightweight.
- Completely passive, i.e. no AC power required to operate.
- Auxiliary input and output provides added flexibility to complete your control center.
- **Cables Not Supplied**

BP IMAGE ENHANCER
MODEL V-1860

OUR PRICE $49.95

CABLE KIT $10.50
Contains: 6 V-3606

The Model V-1860 Image Enhancer will dramatically improve the performance of video cameras and VCR's (off-the-air or second generation recordings), by compensating for deterioration of detail and sharpness.

The detail control increases enhancement by improving the image sharpness, making detail more intense and flesh tones more natural.

The gain control reduces snow and other low level luminance-noise brought up by too much enhancement.

The gain control will also tune down the video signal eliminating excess signal which causes buzzing and distortion. Both detail and gain controls are inter-related. Adjustment of one can slightly effect the other.

For use with two slave VCR's, simply connect the V-1860 in line between your camera or master VCR. The output of the V-1860 Image Enhancer has a video output. This video output cannot be directly attached to the antenna terminals of your TV set. Attachment requires the use of a V-1885 video to RF Converter.

The V-1860 Image Enhancer includes a video distribution amplifier with two video outputs, allowing you to make two copies at once without loss in signal level.

BP VIDEO GUARD STABILIZER/RF CONVERTER
MODEL V-1877

OUR PRICE $69.95

CABLE KIT $11.75
Contains: 6 V-3606
1 F-3F

The Model V-1877 is a Video Guard Stabilizer/RF Converter that also has a self contained A&B switch and a bypass switch. Many movies, concerts and special programs available for sale or rental are copy guarded to prevent you from making copies. The V-1877 Video Guard Stabilizer/RF Converter removes the copy guard and allows you to make copies. Many TV sets will not play prerecorded tapes because the copy guard causes the picture to roll and jitter, turn to snow or disappear altogether. The Model V-1877 Video Guard Stabilizer/RF Converter stops this at the source by completely removing the copy guard from the signal.

The A/B switch enables quick selection of one or two VCR's without disconnecting cables. The bypass switch enables quick comparison of VCR output with or without a stabilizer.

The built-in RF Converter gives the model V-1877 an RF output which can be fed directly to the antenna terminals of a TV set. This enables you to remove the copy guard from a pre-recorded tape and view it on a TV using only on VCR. Without a built-in RF converter, you would need two VCR units to accomplish this. If a second VCR is added at a future date, you can still use the V-1877. A seperate video and audio output are provided for hook up to a second VCR.

Use as an RF Convsrtsr only.

By using the V-1877 Video Guard Stabilizer/RF Converter in conjunction with your TV, you can feed direct audio and video signals from any video device such as a video camera, computer, portable VCR, etc.

BP RF CONVERTER
MODEL V-1885

OUR PRICE $39.95

CABLE KIT $4.75
Contains: 2 V-3606
1 F-3F

The Model V-1885 RF Converter also known as an RF Modulator allows your TV set to receive video and audio signals from your image enhancer, guard stabilizer, video camera, computer, VCR, etc. The outputs of many video components cannot be directly hooked up to the VHF antenna terminals on your TV set. This problem is solved by using the Model V-1885 RF Converter.

The direct video signal from any video component is fed into the V-1885 RF Converter and is converted to a usable RF signal that can go to your TV antenna terminals.

The V-1885 RF Converter allows your VCR output to feed two TV sets at the same time, with virtually no signal loss. It can also be used to feed a video switcher input.

SENSAPHONE™ HOME MONITORING SYSTEM

MODEL SC-145 **OUR PRICE $169.95**

DESCRIPTION

Sensaphone answers a basic need. Now you can protect your home, your vacation cabin, the security of your office...or virtually any property you own...with a Sensaphone System. Locks and alarms are important but limited. Having a Sensaphone System monitoring your property when you're away is the next best thing to being there. What the Sensaphone System does. Say you're away from home. A fire breaks out and your smoke alarm goes off. Who hears it? The Sensaphone does. Automatically, and in sequence, it can phone you, your office, a neighbor, or a relative until its warning message is received. Now the person receiving the message can alert the fire department and save the house. The Sensaphone continuously monitors major enviromental conditions. Connected to your telephone, the Sensaphone system is continuously alert for power failures, excessively high or low temperatures, unusual sounds...and three other conditions of your choice. If alarm conditions develop, the system will automatically dial the numbers you have entered, until answered. When answered, the Sensaphone talks to the receiving party. It identifies itself, gives the time, says exactly what's wrong, then switches on its built-in microphone so unusual sounds, if any, can be heard. The microphone also enables you to listen to sounds in your home while away. Just telephone the system and it will report and let you listen to the room sounds. Keeps working, even if there's a power failure. Automatically dials up to 8 numbers. A snap to install.

SEIKO TFT POCKET COLOR TELEVISION

MODEL T-102 **OUR PRICE $299.00** **NEW!**

DESCRIPTION

Seiko introduces a brillient idea; the flat screen color TV. A technological first from Seiko. They call it TFT TV because 52,800 thin film transistors power the wafer-thin 2-inch diagonal screen. The result is a color picture of stunning high resolution and clarity.

SPECIFICATIONS

PICTURE ELEMENT: Display type: Transparent TFT type TN color LCD - color filter system. **Pixels:** 52,800 (200 x 240). **Screen size:** 2" diagonal (38.4 x 28.6mm). **BACKLIGHT:** Internal flourescent tube or natural light. **RECEPTION: VHF:** 1-12, **UHF:** 13-69. **ANTENNA:** 26" telescoping rod antenna. **SPEAKER:** 1-3/8" round speaker. **POWER SUPPLY: 4-way system:** DC (5 "AA" batteries not included), AC adaptor (7.5 volt), Rechargeable battery pack (optional), Car battery adaptor (optional). **BATTERY LIFE: AA batteries:** approx. 6 hrs. natural light/3 hrs. internal. **Rechargeable:** approx. 2.5 hrs. natural/1.3 hrs. internal. **POWER CONSUMPTION:** 1.9 watts. **DIMENSIONS:** 6-3/8"L x 3-1/8"H x 1-1/4"D. **WEIGHT:** less than 1 lb. (AA batteries not included). **INPUT/OUTPUT:** Video input & output jacks, Earphone jack. **ACCESSORIES INCLUDED:** AC adaptor (7.5 volt), Earphone, Carrying strap.

OPTIONAL ACCESSORIES

TD-05 AC adaptor $24.95
TD-98 Car adaptor $29.95

KONICA COLOR VIDEO AUTO-FOCUS CAMERA

MODEL CV-601 **OUR PRICE $499.95** **NEW!**

FEATURES

- Zoom control. • Auto-Focus.
- Color temperature compensor. • Eyesight correction lens.
- Unidirectional microphone. • Eyepiece shutter. • Viewfinder indicators.
- Size 66mm x 225mm x 122mm (WxDx H) (2.6" x 8.9" x 4.8"). • Weight 1.6 lbs.

DESCRIPTION

The Konica CV-601 doesn't look like any other video camera, the body is long and slim with a comfortable grip that lets you hold it firmly with one hand. There are no troublesome adjustments, just set a single selector to one of four easily understood selector positions. With the Konica CV-601 even beginners can make beautiful professional looking recordings with ease.

Optional Soft Case model #CB-100 ..... $19.95
Optional To Adapt Camera For Use With Beta/VCR model#TD-A $69.95

LIGHTWATCH LIGHTWATCH II

MODEL LC-1/2 **OUR PRICE $149.95** **NEW!**

DESCRIPTION

LightWatch II LC1/2 is the top-of-the-line automatic outdoor lighting control device which detects persons or vehicles by a passive infrared detector as they enter its field of view. It then turns it off automatically at a later, pre-set time. The weatherproofed unit is mounted directly on an outdoor wall or post and is aimed at the desired area to be monitored. It has two integral floodlamp holders in addition to the sensor/control head. All three parts are independently adjustable, so that each can be directed to an area as desired.

AR SRC STEREO REMOTE CONTROL SYSTEM

MODEL AR-SRC **OUR PRICE $149.95** **NEW!**

DESCRIPTION

The AR-SRC adds remote control convenience to virtually all component stereo and video systems. It allows you to control 15 functions from anywhere in the room via infrared commands from a wireless remote handset. This means that critical adjustments—of volume and balance—can be made from the one place in the room that counts, the listening position.

FEATURES

- Compatible with all component audio systems. (Receivers or integrated amplifiers which allow for connection of tape deck or between separate preamps and power amps.
- 8-bit custom programmed microprocessor. • 15 function hand held module.
- Remote functions include: system on/off, volume control, balance control, -20dB mute, full audio mute, source switching via remote tape monitor, left vs right speaker comparison, sleep timer.
- Full memory of control settings with power off. •Studio quality specifications.
- Adds a second tape loop to your system. • Operating range of 40 feet nominal.
- Phono cables, battery and instruction manual included. • 1 year limited warranty.

APPLICATIONS

The AR-SRC simplifies interconnection of video and audio components for enhanced sound while viewing movies and music videos. It may be used as a high quality preamplifier for high output components such as digital disc players, tape decks, VCRs (audio signal), and tuners. Signal Processors may be switched in and out of the audio circuit, allowing instant comparisons for adjusting equalizers, time delay systems, or dynamic range expands from the listening position.

SENSAPHONE

T-102

CV-601

LC-1/2

AR-SRC

BP THREE-WAY MINI SPEAKER WITH BRACKETS
MODEL HF-9

The mini speaker with maxi sound

SPECIFICATION
- Die cast aluminum. • 3" Long throw woofer.
- Impedance: 8 ohms. • 1" Soft dome tweeter.
- 2" Extended midrange speaker. • Frequency response 80-20,000 Hz.
- Max. power: 50 watts. • Dimensions: 7-1/4"W x 4-1/2"H x 4-3/8"D.

OUR PRICE
$29.95 pair

SANYO MINI-SIZE AM/FM STEREO CASSETTE PLAYER
MODEL MG-41

SPECIFICATION
- Anit-Rolling Mechanism. • Metal Tape Capability.
- FM Stereo LED Indicator. • 2-Position Tone Control.
- Cue & Review. • Lighweight Stereo Headphones.

OUR PRICE
$49.95

SCOPE
3-1/2 DIGIT LCD METER
MODEL DVM-630

FEATURES
- 0.05% Accuracy.
- DC Voltage.
- AC Voltage.
- DC Current. • Resistance. • Diode Test.
- Battery Test. • Battery Life 300 Hours.
- Test Leads Included. • See page 43 for details

OUR PRICE
$29.95

SEIKO TFT B&W POCKET TV
MODEL LVD-012

FEATURES
- Slips into shirt pocket.
- Screen size: 2" diagonal.
- Barely weighs 7 oz..
- Built-in screen protector.
- Patented TFT screen.
- Picture gets brighter in daylight.
- Power Source: 2 "AA" dry cells.
- Telescoping antenna.
- Reception: VHF:2-13, UHF: 14-69.

OUR PRICE
$149.95

SANYO RECHARGEABLE WET/DRY ELECTRIC SHAVER
MODEL SVMW-700

Now you have the choice of Wet or Dry shaving in one shaver!

FEATURES
- Multi-perforated head offers knick-free comfort.
- Sharp vibrating-type cutter blades with 26 cutting edges.
- Runs up to 40 minutes on 2 "AA" batteries (not included).
- 2 Speed versatility. • Weighs 4-1/2 oz. with batteries.

OUR PRICE
$17.95

BEL HOTSHOT BATTERY POWERED POCKET/ WINDSHIELD MODEL
MODEL 720

FEATURES
- Battery Powered.
- Micro strip antenna.
- Bracket with suction cup supplied for windshield mounting or carrying in your pocket.
- Front and rear detection.
- Pre-set for optimum X and K band reception.
- Highly audible warning buzzer.
- Plug into lighter with power cord supplied.

OUR PRICE
$69.95

Fordham Radio
260 Motor Parkway
Hauppauge, NY 11788
Toll Free (800)645-9518
NYS (516)435-8080

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